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RICAN RIFLEMAN

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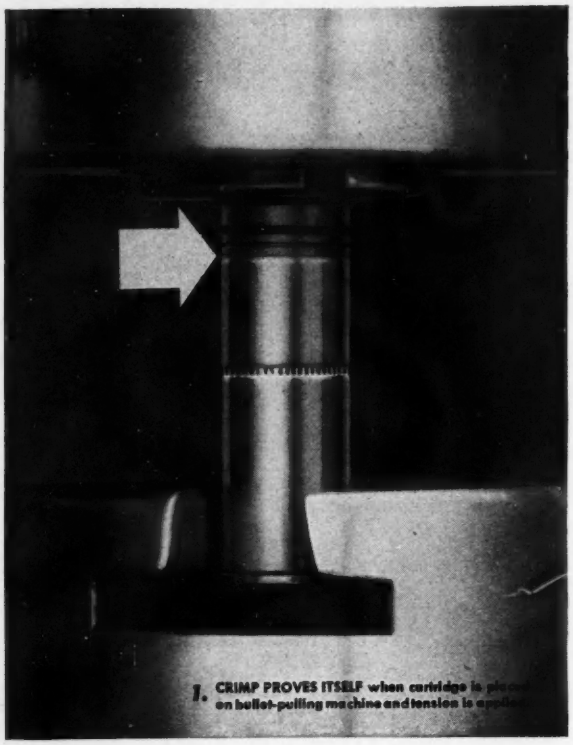
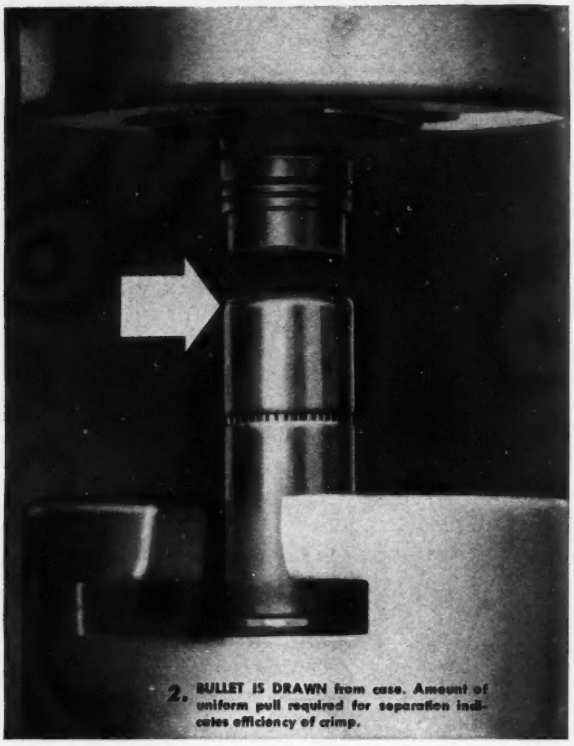


1. CRIMP PROVES ITSELF when cartridge is placed on bullet-pulling machine and tension is applied.



2. BULLET IS DRAWN from case. Amount of uniform pull required for separation indicates efficiency of crimp.

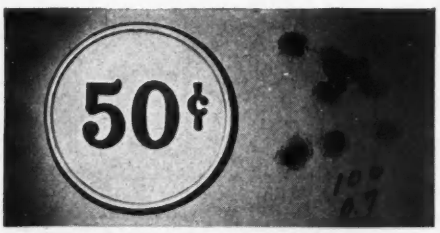
Pull-apart test has hand in high scores

"BUILDER-UPPERS . . . breaker-downers!" That's the reputation of Peters technical men. For they not only put match cartridges together . . . they pull them apart. The test you see above, made by a Peters bullet-pulling machine, checks samples from every lot of Peters match ammunition for uniform perfection in crimping, so important to fine accuracy and high scores on the range. To meet the rigid specifications of Peters 22 match cartridges, the amount of bullet pull must be within closely controlled tolerances.

This is one of many checks made by Peters technical men to assure exactness of match cartridge manufacture. These tests mean that every Peters match cartridge you shoot is the same as every other, to an unbelievably precise degree. Hence, along with your good aim and steady hold, these cartridges pack the accuracy you need for *possible after possible* on rifle or pistol ranges.

We hope that production of these unexcelled match cartridges in 1947 will be such that next time you go pistol shooting, you can load up for a possible with Peters Police Match or Peters Target 22's. Made *by* experts *for* experts—for *any* make of modern American pistol or rifle—*there's no more accurate rim fire ammunition in the world!*

TO BACK UP your good aim, Peters technical men study Peters match ammunition for maintenance of close tolerances . . . assurance of perfect shooting, maximum accuracy.



THE PROOF IS IN THE POSSIBLES! 50¢ piece covers this Peters Police Match 22 group, shot by machine rest pistol with 6" barrel at 50 yards.

PETERS
PACKS THE POSSIBLES

PETERS CARTRIDGE DIVISION, *Remington Arms Co., Inc., Bridgeport 2, Conn.—"Target" is Reg. U. S. Pat. Off.—"Police Match" is a trade mark of Peters Cartridge Division.*

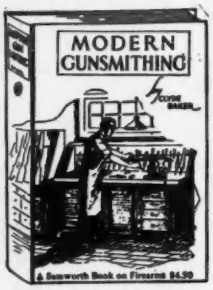
DU PONT

Clear VISION
Cool VISION
Comfortable VISION

YOU can't do your best on the line unless your vision is keen, comfortable, effortless. Thousands have found cool comfort in brightest sun from Ray-Ban, the Bausch & Lomb sun glass. The special Ray-Ban shooting glass is the answer to the recommendation of leading rifle, handgun, trap, and skeet men. It has the desired large, deep-curved lenses, shaped for widest field of unobstructed vision. Its frame is strong, comfortable on the face. And the unique property of Ray-Ban lenses is the ability to filter out glare and transmit a sharp view of the target. For the most in cool, comfortable vision, scientifically safe, wear Ray-Ban. Bausch & Lomb Optical Co., 250-J Lowell St., Rochester 2, N. Y.

If you wear glasses, ask your optometrist, ophthalmologist, or optician about Ray-Bans in your own prescription.

SAMWORTH BOOKS ON FIREARMS



MODERN GUNSMITHING

by Clyde Baker

$4.50

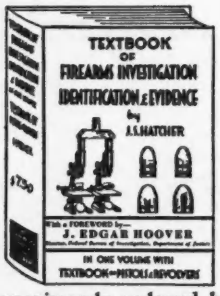
Contains everything on gunsmithing that the serious beginner should know. Has 525 pages of practical text and more than 200 working drawings and illustrations—the biggest value offered in any text book professing to cover all stages of gun work.

Has chapters on shotgun, revolver, and pistol work. It gives extensive instruction in the remodeling of obsolete and military arms.

TEXTBOOK OF FIREARMS INVESTIGATION, IDENTIFICATION AND EVIDENCE

by Major General Julian S. Hatcher

$7.50



Covers a highly technical subject in an interesting, readily understandable manner. The author, an outstanding Ordnance Officer, was selected by the FBI to instruct G-Men in the identification, collection, and presentation of proper evidence in cases involving firearms. This is the textbook used. This book, unanimously endorsed by firearms experts and law enforcement officials, is a must for the library of gun collectors, lawyers, detectives or police officials.

ADVANCED GUNSMITHING $4.00
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MODERN AMERICAN PISTOLS AND REVOLVERS
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A RIFLEMAN WENT TO WAR $3.50
by H. W. McBride

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THOMAS G. SAMWORTH

Small Arms Technical Publishing Co.

Plantersville 7, South Carolina

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DEALERS . . .

Get your share of the post-war profitable firearms book business by keeping a good stock of Samworth Books on Firearms. We do not publish all the gun books; we do publish the best gun books—and have been doing so for the past 20 years. Our line offers the cream of the crop in technical works and books of instruction for those who shoot, study and enjoy firearms. Write for Price List.

RIFLEMAN WORDS . . . .

Each month this "lexicon for shooters" is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer. All words defined here are used in a current article.

BEDDING—The fitting of the metal parts of a rifle into the wooden stock. This fitting has much to do with the way in which the barrel vibrates and the close grouping capabilities of the rifle.

BOATTAIL BULLET—A bullet with a conical base which tends to streamline the bullet and give it a better ballistic coefficient. The War Department found that a 9 degree boattail gave best results with the 172 grain .30-'06 bullet.

CHERRY—A fluted steel cutting tool made to the shape desired for a cast bullet. The tool is used to cut the bullet cavity in a bullet mold.

FAST POWDER—A powder which has fast burning characteristics. For a given load fast powders will develop higher peak pressures than a slow-burning powder.

GAS CHECK—A small cup, usually made of copper alloy, which is pressed on the base of cast bullets to protect the lead from the hot, high pressure, powder gasses.

GROOVE DIAMETER—The diameter in a rifle barrel between the bottoms of opposite grooves. This can ordinarily be measured in barrels with an even number of grooves only because when there is an odd number of grooves a land will be directly opposite a groove.

INSTRUMENTAL VELOCITY—The speed of a bullet, based on time interval measured by a chronograph. The figure normally represents the average velocity between two points in front of the gun, and not muzzle velocity which must be calculated from the instrumental figure.

LEADING—When a lead bullet (non-jacketed) is fired in a rifle, some of the lead may adhere to the lands or grooves. A rough bore is, of course, more subject to leading than a smooth one.

MINUTE OF ANGLE ACCURACY—One minute of angle subtends roughly one inch at 100 yards. A rifle and ammunition which will group within one inch extreme spread at 100 yards is thereby capable of minute of angle accuracy at that range. At 200 yards two-inch extreme spreads would be minute of angle accuracy, et cetera.

MIRAGE—When the air next to the ground is at a different temperature from that in a higher strata, heat waves are visible which produce optical illusions. These heat waves are commonly referred to as mirage. The direction in which the heat waves are running can be observed by the shooters and are an aid in "doping" the wind.

SIGHTING IN—A rifleman's term for the sight adjustment which must be made in order to hit on the target at a specified range. With the .22 caliber rim fire, for instance, rifles are usually sighted in to hit the point of aim at 50 yards. Then the rifleman, knowing the characteristics of the cartridge, can use that 50-yard setting as a reference point in making adjustments for other ranges.

MALLARDS by Lynn Bogue Hunt—*from the Du Pont Museum, Wilmington, Delaware.*

Keep This Under Your Shooting Cap...

When you see a flock of mallards winging southward, remember—game is scarce in many localities. Yet there are more shooters than ever before. Thus tomorrow's game may be even scarcer. To assure yourself and others good hunting in the future, limit your bag today. Help also by joining and supporting local and national organizations for game restoration and conservation.

E. I. DU PONT DE NEMOURS & CO. (INC.)
Explosives Department
Wilmington 98, Delaware

DU PONT
REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

DU PONT SPORTING POWDERS

WORLD-FAMOUS SINCE 1802

...Again

MORE SHOOTERS and WINNERS

Cartridges than

THREE NEW RECORDS

In the National All Around Pistol Championship, in which a new record was set, the winner used SUPER-MATCH in the 22 and 38 caliber events.

In the Open 22 Caliber Rapid Fire Match a new record was made by the winner—using SUPER-MATCH Mark II.

In the Open Center Fire Slow Fire Match at 50 yards another record was set by a shooter using SUPER-MATCH 38 Special Mid Range Cartridges.

Western

WORLD CHAMPION AMMUNITION

DIVISION OF OLIN INDUSTRIES INC.

AT CAMP PERRY

Shot SUPER-MATCH Rifle and Pistol

any other brand!

Once again, the nation's foremost marksmen have shown their preference for SUPER-MATCH . . . the *superior match* ammunition.

In the 1947 national pistol and small bore rifle championships at Camp Perry, more competitors shot super-accurate SUPER-MATCH rifle and pistol cartridges than any other brand.

Here's the list of championships won with SUPER-MATCH . . . 17 of them . . . more than any other brand in the entire Camp Perry program.

National All Around Pistol Championship
N.R.A. Target Pistol and Revolver Championship
National Woman's Pistol Championship
22 Caliber Pistol Aggregate
Center Fire Pistol Championship
Life Members' Match (pistol)
Open 22 Caliber Rapid Fire Match (pistol)
Walker Trophy Match (pistol)
Open Center Fire 50-yard Slow Fire Match (pistol)
Open Center Fire Timed Fire Match (pistol)
Open Center Fire Rapid Fire Match (pistol)
Clark Trophy Match (pistol) C. F.
N.R.A. Trophy Team (pistol) C. F.
Team Match 22 Caliber (pistol)
National Junior Rifle Championship
Metallic Sight Aggregate (rifle)
Open 100-yard Match—Metallic Sights (rifle)

We compliment and congratulate the winners, near-winners, everyone who shot in the matches. We also express our sincere thanks to the overwhelming majority of shooters who placed implicit confidence in SUPER-MATCH.

Western Cartridge Co., East Alton, Illinois, Division of Olin Industries, Inc.

Look over this list — then order on our Time-Payment Plan

ONE-FOURTH WITH ORDER, balance in 5 monthly payments. PROMPT DELIVERY.

NEW Remington Junior Special Model 521 .22 caliber target rifle with Lyman sights	$ 34.95
Remington Sportsman — Skeet gun with ventilated rib, 12 gauge	130.10
Remington Model 31 T.C. trap gun target grade, ventilated rib, 12 gauge	152.80
Remington Model 513TR Rifle with Redfield sights	53.50
Remington Model 37 Rifle with Redfield sights	113.60
Winchester Model 75 Target Rifle with Lyman sights	57.75
Winchester Model 75 Sporting Rifle with Bear Cub Scope 2½ power and Stith mount	98.03
Winchester Model 52 Target Rifle, Standard weight with Lyman sights	95.05
Winchester Model 52 Target Rifle, Heavy Barrel with Lyman sights	105.80
Marlin 39A lever action .22 caliber rifle	50.45
Marlin 36 Carbine .32 caliber	55.60
Marlin 36A Rifle .32 caliber	65.50
Unertl Small Game Scope, 4 & 6 power	40.00
Unertl Varmint Scope, 6 & 8 power	75.00
Unertl Target Scope, 1 inch objective, 8 & 10 power	58.00
Unertl Target Scope, 1¼ inch objective, 10 & 12 power	78.00
Unertl Target Scope, 1½ inch objective, 10, 14 and 20 power	90.00
Unertl Target Scope, 2 inch objective, 10, 15, and 20 power	125.00
Litschert "Targeteer" Junior Scope, ⅞ inch objective, 10 power	54.50
Litschert "Targeteer" Senior Scope, 1½ inch objective, 12 power	89.50
Fecker, Target Scope, ¾ inch objective, 4.5 and 6 power	52.50
Fecker Target Scope, 1⅛ inch objective, 8, 10 & 12 power	70.00
Fecker Target Scope, 1½ inch objective, 10 and 12.5 power	93.50
Fecker Target Scope, 1⅝ inch objective, 10, 12.5, 16 & 20 power	98.50
L. C. Smith Double Barrel Shotgun, Field Grade, 12 and 20 gauge	96.10
Ideal Grade, 12 gauge	128.95
Stevens 416 Target Rifle .22 caliber, factory sights	53.20
Belgian Browning Shotgun, Sweet 16 with rib	137.00
with plain barrel	124.50
High Standard .22 caliber automatic Model HD-M, 4½ & 6¾ inch barrel	51.17
NEW High Standard Model G .380 caliber Automatic, 5 inch barrel	55.00
Harrington & Richardson Model 999 Double Action .22 caliber 9 shot revolver	44.95
Colt Government Model .45 caliber Automatic Pistol	65.00
Smith & Wesson K-22, future delivery	65.00
Smith & Wesson Military & Police Revolver, square butt, .38 caliber, 4 & 5 inch barrel	56.50
Fecker "Woodchucker" Scope, 1.2 inch objective, 4.5, 5.5 & 7 power	62.50
Hunting Scopes—	
Weaver K2.5, 2½ power	37.50
Weaver K4, 4 power	45.00
Weaver J2.5, 2½ power	22.50
Lyman Alaskan	60.00
Bear Cub, 2½ power	50.00
Spotting Scopes—	
Argus Super Spotting Scope	74.50
Argus Stand	8.50
Mossberg Spotshot	22.30
Mossberg Stand	9.95
Mark 218 Spotting Scope	22.50
Stith, King-Pike and Redfield Mounts available	
Binoculars—	
Bausch & Lomb, Wollensak and Universal—all models.	
Paratroopers Gun Case—excellent	3.75
10-X Imperial Shooting Coats	13.00
"Modern Gunsmithing," by Baker	4.50

CAMERAS

Cine Kodak Magazine 8mm Movie	145.83
Kodascope 90 8mm Movie Projector	175.00
Revere M/70 Magazine 8mm Movie	127.50
Revere M/88 8mm Movie	77.50
Revere M/85 8mm Movie Projector	120.00
Eastman Kodak "35" with Rangefinder	86.58
2¼ x 3¼ Speed Graphic "23"—Optar f:4.5 lens	221.86
2¼ x 3¼ Crown Graphic Ektar f:4.5 lens	185.15
Argus Model C3 Camera complete with flash gun & carrying case	74.71
Also supplies and accessories for the above	

Write for mimeographed list of items we are now offering.

PARKER-WHELEN CO., INC. • Dept. R-10 • 827 14th St., N.W., Wash. 5, D. C.

NRA's first junior rifle club outside of territorial limits is located, of all places, in Tokyo . . . Named the Pioneer Junior Rifle Club, it has fifty-nine youngsters from the Tokyo American School under the instructorship of enterprising Commander Ernest H. Hale who has placed a five-point range on an old LST which is being cannibalized for spare parts . . . You may have been surprised to read an article, "British Sniper" in the August RIFLEMAN, written by a British airman . . . But if the idea of a flyer being interested in sniping seems unusual it will probably be even more surprising to learn that the King's Prize at Bisley this year (counterpart of our President's Match) was won by W/O R. Bennett of the RAF, with two other RAF riflemen third and fourth.

☆ ☆ ☆

Recognizing the fact that social get-togethers strengthen club ties and that good films are a prime requisite for successful entertainment, NRA hopes to put in operation this fall a plan which will supply films on shooting (and related) subjects to clubs for no more than shipping costs . . . Firms owning or distributing entertainment or educational movies which would be of interest to NRA shooter-members can contact NRA for further information . . . The majesty of the law: Having decided, understandably, that seven thefts in a row of his Philadelphia confectionery store was "too much," John Creech recently took a shot at would-be burglar No. 8 . . . What is not understandable is why this proprietor had to establish his own police protection after seven burglaries in three weeks and, even more, why he is rewarded for sending a bullet into the thug's shoulder by a charge of aggravated assault and battery . . . and held under $600 bail.

☆ ☆ ☆

War's aftermath: From Rotterdam, Holland, comes an appeal from two Dutch youngsters for an exchange of correspondence with American shooters around 21 . . . "Owing to the war our (Dutch Shooting) Association is nearly dead, only a few dozens of members are left . . . We have nothing to do yet. Only a few rifles, a couple of shotguns, several revolvers, and one pistol is all we have yet," they write. "Further is our range nearly ruined by the Germans but we are busy to rebuild it again. We also have nearly nothing to talk about but some old experiences . . . so if you please to give our addresses to some of your members for corresponding we can change thoughts and ideas with them." . . . How about it, Spotting Scopers? The addresses are: Enno H. Dostdyk, 17 Punt Street, Rotterdam (W), Holland; and Oscar V. Kan, 42B Bruyn Street, "Delfshaven," Rotterdam, Holland.

☆ ☆ ☆

Feeling that their state has been too modest about its arms collections, a group of Jerseyites have formed the New Jersey Arms Collectors Club . . . If nearly as successful as the going Ohio Gun Collectors Association, it should achieve its aims of promoting and furthering the grand old collecting business . . . and should wield authority against the gun registration folk.

What is the A. S. A.?

Why Another Shooting Association?

Let Sid Hinds Tell You...

AMERICAN SHOOTING ASSOCIATION

WASHINGTON, D.C.

1 October, 1947

OFFICE OF THE PRESIDENT

To the Shooters of America:

A brand new development in target shooting has been accomplished. I am sure you and many thousands of embryo shooters will be interested. A super-accurate, short-range compressed gas (CO_2) gun, and a "packaged" range, complete with back stop, target carrier, lighting system, parapet, provide the immediate answer to the civilian indoor recreational shooter who asks, "Where can I shoot, and how can I afford it in these times?"

The American Shooting Association will sponsor nationwide competitive league and individual shooting, qualification for awards, and expert instruction in safe and proper shooting on these A.S.A. Ranges, now being distributed and installed in all sections of the country. Briefly, the competitive scheme is similar to that of bowling, consisting of local, state, and regional matches, culminating in a final shoulder-to-shoulder shoot-off for the National Championships with this type of gun.

This program will not conflict with the long established and successful powder gun matches sponsored by the National Rifle Association. On the other hand, many shooters will be introduced to "dead-eye" marksmanship, and may be expected eventually to join the ranks of "powder-burners" and make their mark there.

I hope that the many N.R.A. shooters with whom I have had the pleasure of shooting during the past thirty years will visit the A.S.A. Approved Rifle Ranges as they appear in their communities — give them the once over, and squeeze off a few shots. If the set-up pleases you, pass the word on, and if it doesn't, drop me a line.

More shooting for more people!

AMERICAN SHOOTING ASSOCIATION

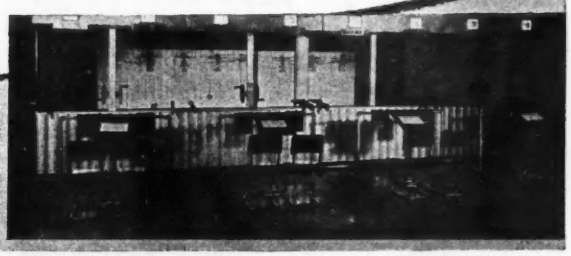
S. R. Hinds

S. R. HINDS
Brig. Gen., U.S.A. (Ret'd.)
President.

Sid Hinds

Distinguished Marksman and Distinguished Pistol Shot, Ten-time U. S. Infantry Team Member (1921-39), U. S. Olympic Team (1924), U. S. International Team (1924, -28, -30), Dewar Team (1924 and 1926), Pan-American Individual Champion (1924), U. S. All-Around Champion (1936), Executive Officer, National Matches (1946).

AMERICAN SHOOTING ASSOCIATION — ASA — AIM STRAIGHT AMERICA



THE NEW CROSMAN COMPLETE "PACKAGE" RANGE is made possible by the new Crosman "200" Carbine. Shooters at these ranges will be eligible for ASA membership and for associate membership in the NRA.

FLASH! . . . WINCHESTER MODEL SENSATIONAL

14 OF 20 Rifle Matches Won With Smokeless EZXS

Yes, in the National Small-Bore Championships at Camp Perry, where the cream of the nation's small-bore marksmen competed, 14 first-place winners in the 20 scheduled rifle matches shot their championship scores with the new *Winchester* Smokeless EZXS.

National Small Bore Championship (The Critchfield Trophy)*
National Woman's Championship*
Any Sight Aggregate Match*
U. S. Cartridge Company Trophy*
Lyman Trophy Doubles Match
In this match 9 of the 10 members of the 5 top doubles teams shot EZXS
Remington Trophy Match*
Randle Trophy Doubles
American Dewar Trophy Match
Open 50-yard match—any sights
Open 100-yard match—any sights
Western Trophy Match
N. R. A. Affiliated Club Team Match—Any sights (3 out of 4)
"400" Club Members Match
N. R. A. Affiliated Club Team Match—Metallic Sights (3 out of 4)

In addition, 9 of the 20 members of the U. S. Dewar International Match Team—including the *top* man—shot EZXS.

*Setting new U.S. National Match Record.

By such a grand performance, EZXS were the talk of Camp Perry for their supreme accuracy. YOU can have the advantage of these record-making 22's all year 'round. Just say, "I'll take EZXS, every time!"

52 AND EZXS AT CAMP PERRY

AND THESE EVENTS WERE WON WITH A *WINCHESTER* MODEL 52

TRADE-MARK

National Small Bore Championship*
National Woman's Championship*
Any Sight Aggregate*
Metallic Sight Aggregate
Open 50-yard match—metallic sights
U. S. Cartridge Company Trophy*
American Dewar Trophy Match
Open 50-yard Match—any sights
Western Trophy
N. R. A. Affiliated Club Team Match—metallic sights (2 out of 4)
"400" Club Members Match
On the American Dewar Team, 12 of the 20 members shot Winchester Model 52 . . . including the 10 shooting the highest scores.

*Setting new U.S. National Match Record.

Again this year at Camp Perry, the famous Winchester Model 52 was the choice of more contestants and more winners than any other rifle. Its record speaks for itself... proves that the Winchester Model 52 is the undisputed "King of Them All" for small-bore match shooting.

WINCHESTER

TRADE-MARK

ARMS AND AMMUNITION—MADE FOR EACH OTHER

DIVISION OF OLIN INDUSTRIES INC.

Winchester Repeating Arms Co., New Haven, Conn., Division of Olin Industries, Inc.

Does ALL the Job at HALF the Price

MOSSBERG 20-POWER "SPOTSHOT"

Does everything on the range that a shooter requires of a Spotting Scope (easily defines 22 caliber bullet holes in the black at 100 yards).

Ideal for *any* long distance observation — at seashore, in the mountains, or elsewhere.

Obtainable at a price any shooter can afford.

Features of the "SPOTSHOT"

- 20 Power.
- Erecting objective lens is achromatic, 38 m.m. in diameter.
- Ample tube protection beyond objective lens to prevent glare, and increase contrast and definition.
- Eyepiece lens is 10 m.m. Micrometer adjustment for focus.
- Large eyepiece prevents outside glare and eye fatigue.
- All mechanical parts assembled with machine threads.
- All parts held to precision tolerances. Interchangeable in the field.
- Durable metal caps protect objective and eyepiece lenses.
- Length extended 17 inches, closed 12½ inches. Weight 1½ lbs. Field approximately 7½ feet at 100 yards. Black crinkle finish.

Features of the STAND...

- Design of legs allows shooter to get conveniently close to scope and permits movement of shooter's arm without interfering with scope.
- Grooved support bar permits easy height adjustment. And ball end screws, fitting into grooves, enable shooter to swing scope both right and left to view other targets without disturbing vertical adjustment.
- No back lash in elevation adjustment as the weight of the scope furnishes the necessary pressure.
- Does not sink excessively into ground. Has three point support.
- Folds compactly to 10" x 3¼" x 3".
- Can be used with any make of spotting scope.

SEE the MOSSBERG "SPOTSHOT" and STAND at your dealer's

O. F. Mossberg & SONS, INC.

72509 St. John Street • New Haven 5, Conn.

Incidentally . . .

Of all the RIFLEMAN copies which go into the mails each month, the magazine addressed to Mr. Charles Haspell is probably the one which travels the longest, roughest road. From Suez, Mr. Haspell's RIFLEMAN must go 1500 air miles straight south, paralleling the Red Sea, to the village of Gorei, in Ethiopia's roadless, desolate southwest. An American Mission is located at Gorei.

There are a lot of other readers whose addresses spur the imagination. Two, for instance, whose copies go "via boat mail" to the oil company offices on faraway Bahrein Island, in the Persian Gulf between Iran and Saudi Arabia. There is Mr. Turner's copy, which goes to Drinishader, on the Island of Harris in the Hebrides—those storm-scarred Gaelic islands off the Scottish coast. A copy of each issue somehow follows RIFLEMAN author John Taylor, via Barclay's Bank at Blantyre, Nyasaland, into whichever of the game-rich areas of Central Africa he is hunting at the moment. Copies go to occupation soldiers in Tokyo, and to a reader in troubled Haifa, in Palestine. A magazine goes to the day room of the First Royal Tank Regiment, British Army of the Rhine, at Detmold, Germany, and another to Lallgarh Palace in Abu, India, for the library of the Maharaja Kumai Sahib of Bikaner.

☆ ☆ ☆

Those files of address stencils (2500 or so of them) which are carried by our Circulation Department under the general heading of "foreign" are of more than passing interest. Mr. Haspell at Gorei and the two members on Bahrein Island; the Maharaja of Bikaner and a shooter in Reykjavik, Iceland; one on the Channel Island of Jersey (that fragment of the Empire between England and France); some readers in Shanghai and Kunming, in the Transvaal and Jamaica; the one in the gold fields of Coolgardie, West Australia; the group on Guam and the one who's hunting now in Central Africa are, strangely enough, important factors in this business of editing THE AMERICAN RIFLEMAN.

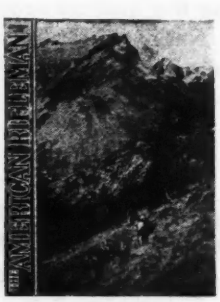
Along with their connotations of faraway places, of exotic game and unfamiliar language, those "foreign" stencils represent a kind of international brotherhood of shooters . . . a group that isn't "organized," perhaps, but which finds in shooting, regardless of distance and language barriers, a universal sport.

As we look at it, "foreign" readers . . . members in the farthest outposts of U. S. diplomacy and trade and occupation, and the shooters who subscribe even though they are not United States citizens, and cannot become active NRA members . . . are important out of all proportion to their number. They are the leaders of the sport in other lands . . . the ones whose interest in shooting keeps it alive on an international scale. If you read the story on page 42 of this issue, you will see one practical demonstration of that interest. The International Matches are coming back . . . matches for *real* world championships. The United States was not represented this time, except by a delegate to the meeting of the International Shooting Union, but there will be other years, and other matches.

☆ ☆ ☆

It's a challenging idea . . . this thing of sharing an interest with men in the far corners of the earth. You've never met them . . . probably never will . . . but they are there just the same . . . banging away at a target, sharing the same problems, experiencing the same thrills . . . and finding a common meeting ground in a magazine published in one of the few countries left where the tradition of marksmanship is still the mark of a man's man.

If you go from Penn Avenue, Scranton, Pennsylvania, to Gorei, Ethiopia, or to Reykjavik, Iceland, don't be surprised if you run into a fellow who is as familiar as you with the latest issue of THE RIFLEMAN!—J. S.



COVER

With the blue expanse of Buck Mountain (elevation 8,400 feet), in Washington State's Wenatchee National Forest, rising in the distance, a pack train winds its way down to the timberline on Carne Mountain.

Kodachrome shot was made by Loren C. Wade of Tracy, Calif., while visiting Wenatchee Forest last fall. Camera used was a Kodak 35.

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The AMERICAN RIFLEMAN

Official Journal of the National Rifle Association of America

VOLUME 95 NUMBER 10

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Personal Problem

THE GREATEST trouble with wildlife conservation in America today is that it is a rich man's job. That, or a job which can be done only with the help of a sizable Federal or state appropriation. Even with the aid of the Pittman-Robertson act and the nine million dollars it will give this year toward the conservation of America's game supply, these appropriations are pitifully inadequate to the job of guaranteeing future sport for the twelve or thirteen million who will go hunting this fall.

Individually, in their role as conscientious hunters, America's outdoorsmen can't seem to do much toward helping our conservation agencies in the job of maintaining the game supply. They can't personally protect the deer population of their state, or even of their own county. They can't buy up land for use as a wildlife refuge. They feel unable to take the place of Federal or state wardens. They doubt their ability even to take a hand when a member of their own party breaks the law by killing a doe "for camp meat." They stand alone, it seems—men with licenses, guns, and a love of the outdoors—while somebody else figures out the laws, tries to enforce them, and arranges for the appropriations.

It is unpleasant to think about, but the fact remains that much of our conservation effort is directed, not at a positive approach to the problem of sound game management, but against the irresponsibility of the sportsman himself. Conservation agencies spend their time, and much of their pitifully small budgets, in forcing the sportsman to stay within laws which were designed to safeguard his hunting "privileges." Game conservation is becoming a policeman's job. It has no business turning into such a law-enforcement body.

The tragic part of it is that we might all but wipe out the need for enforcement of our conservation program, and use those appropriations purely for game research projects, if the individual "sportsman" would do his share of the job.

Practically every enemy of abundant game could be critically weakened if sportsmen paid more than lip service to the rules of their sport.

Consider, for instance, the strangely misguided sense of fair play which allows a "good" sportsman to observe to the letter his own ideas of game conservation and yet wink at the malpractices of his fellow hunter. How often do we hear that someone killed a doe by mistake, and once the error was made, cut it up for camp use. *You* wouldn't make the mistake in the first place. And if *you* had, you would be good sport enough to call it your deer for the season and not go after another. But, because someone else did it, and not you, you wink at the whole affair. *You* don't even put up an argument when he goes after a "legal" deer that he can take out on his license. That kind of sportsmanship is neither sporting nor good sense. It is like letting a man get away when you've just watched him break into a grocery store and clean out the cash register. It is poor sportsmanship, and poor business.

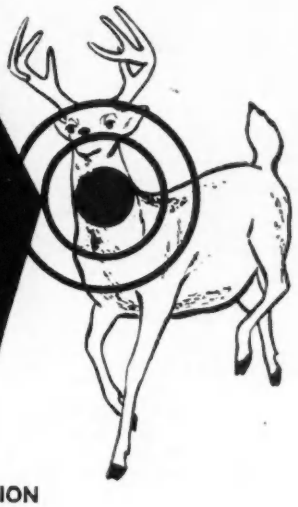
So conservation is like everything else, after all. It boils down to a miserable failure of the "let Joe do it" theory. Joe, personified in this case by Federal and state agencies, will try to do it, but he can't begin to do it all. He can't get far with about 60 federal wardens, for instance, and a few million dollars for the whole program. And when a share of that tiny appropriation must be spent guarding the game supply *against* the "sportsman," in order to have any game left at all, the problem is out of hand.

There is little point in asking your Senator to vote for bigger and better conservation programs. Such programs *might* do the job, *if* he could get them into effect fast enough. The point is that he and his associates probably cannot. In the meantime, America's game supply may dwindle to the vanishing point. Only with the real cooperation of the hunter can our conservation program do its job. The sportsman must work with the conservation men. If the sportsman continues to work against them, the whole program adds up to a waste of money.

This year, as you go on your fall hunting trips, accept *your* share in the job of guarding the game supply. Don't let Joe do it. Do it yourself.—J. S.

By JOHN S. ROSE

STOP THAT BUCK!



WHERE SHOULD YOU AIM AT A DEER? A UNIQUE APPROACH TO THE SCIENCE OF DEER KILLING, AND SOME STARTLING ANSWERS TO AN AGE-OLD QUESTION

HOW MUCH DO AMERICA'S deer hunters know about their sport? Ask any group of "big-game" hunters where you should hit a buck if you want to be sure of anchoring him in his tracks and you can depend on a cut-and-dried answer. Hit him just behind the shoulder . . . bust him in the heart . . . get him in the chest. Are those the right answers? If detailed reports on 5,000 deer killed last season are any criteria, the answer is a definite NO!

That positive statement is going to be a hard pill for a lot of experienced deer hunters to swallow. But the evidence is all there. For the first time, a mass of detailed, factual information on this business of deer killing has been brought together and some startling answers have resulted. The prime fact which emerges is this:

If you want to drop a deer in his tracks, forget that time-honored heart shot. Hit him in the neck. Then, if you misjudge your lead (which is a tragically easy thing to do) and the bullet lands a couple of feet back of where you wanted it, you can still count on a very dead deer somewhere in the immediate vicinity, or at least a deer that won't run on into the next county.

Here are the facts:

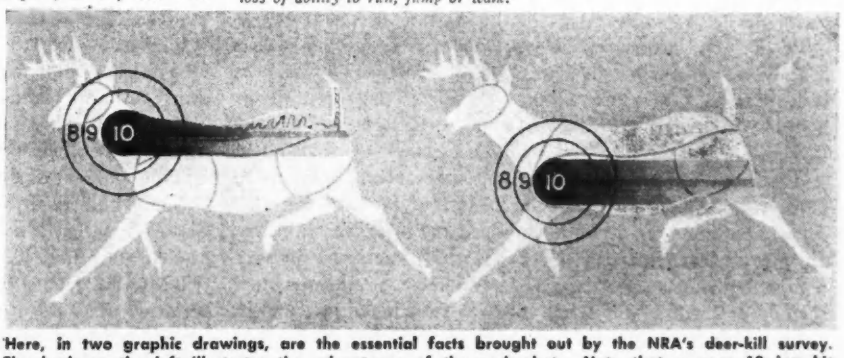
Last spring (AMERICAN RIFLEMAN, April, 1947) the National Rifle Association circulated a questionnaire among deer hunters, asking for details of equipment, range, distance trailed, and the location in which the killing shot landed. Nearly 5,000 completed forms were returned to the NRA.

A most significant fact was brought out when the trailing distances were averaged for hits in each body area of the game. *Ninety-four percent of deer which were killed by neck shots dropped in their tracks.* The few deer which were not dropped cold by that neck shot didn't get far once they were hit. The average distance "trailed" after being hit in the neck was a little over five yards! More to the point, the neck apparently has no localized "bad spot" which might be less vulnerable than its surrounding area, a condition which does exist in the head and heart regions. Judging from the 499 reports on deer killed with the neck shot, any spot in that area is equally vulnerable.*

By comparison, the heart shot turns up a sorry record. In spite of the fact that it is by far the most popular aiming point, only half of the heart area kills dropped in their tracks. The other half (49 percent, to be exact) failed to go down and some of them continued without even the traditional dropping of the tail as an indication that they had been hit. Heart area kills had to be trailed an *average* of better than thirty five yards and in extreme cases traveled 1,000 yards or over before dropping. Trailing a deer that far in rough country is no joke. And there's no way of telling how many deer were hit by equivalent shots and never found.

Strangely enough even the gut shot, frowned upon by every good hunter, turned in a record which compares well with the heart shot. Of the 159 kills recorded by belly wounds, 44 percent dropped in their tracks. The trailing average for all

* *"Vulnerability," as used here is measured not by death itself, but by the loss of ability to run, jump or walk.*



Here, in two graphic drawings, are the essential facts brought out by the NRA's deer-kill survey. The buck on the left illustrates the advantages of the neck shot. Note that a near 10-ring hit will either kill or produce a clean miss. Bullets that strike back along the animal's body because of underestimated lead still land in the deadly spine zone. Compare this with the heart shot on the right, with its potentialities for crippling leg shots and undesirable hits in the gut

Here are the "killing areas" used in analyzing The American Rifleman's survey of deer hunters. These were worked out by reference to actual skeletons. Each represents a structurally different area, in which bullets and efficiency of killing differ radically

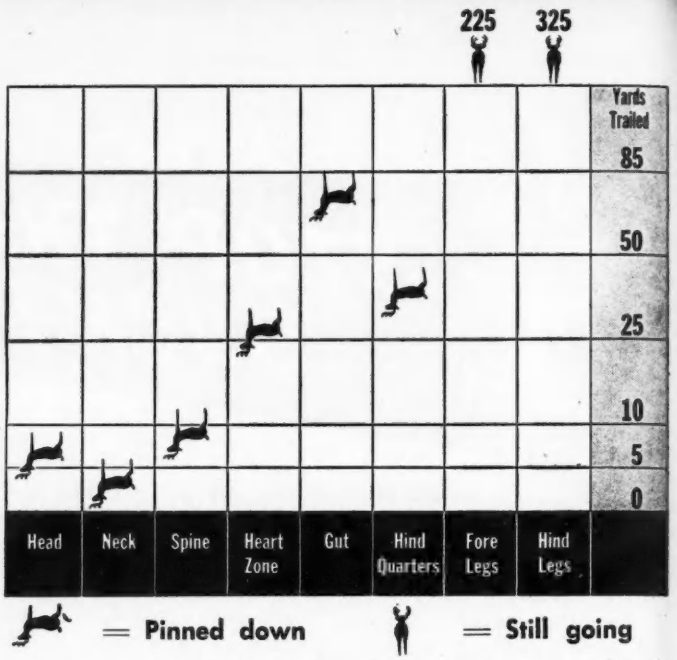


Chart on right shows average trailing distances of deer hit in each of the various killing areas. Note that head, neck and spine compare favorably, while other areas resulted in deer which did not drop until they had run distances of 35 to as much as 325 yards

gut shots was eighty-four and one-half yards.

Hits in the hind quarters stacked up even more favorably with the heart region, with better than half the deer knocked flat. Trailing average of these hits was under fifty yards.

Head shots are unpopular because of the extremely small, uncertain target and the danger of having a deer escape, to starve to death with a smashed jaw. Only 7 percent of the kills recorded were the result of head shots. Obviously, the record of those few shots is good and nearly all of them dropped in their tracks. Average trailing distance was less than eight yards. The uncertainty about head-shot kills is the inability of the average hunter to place his shot in any such limited area as the brain of a deer. The majority of deer bagged through head shots were struck in the brain and death must have been immediate. However, one can almost compute the even higher percentage of deer that escaped with head wounds in other than the brain area, that were not immediately fatal.

An interesting but wholly inaccurate conclusion might be drawn from the fact that all deer killed by shots in the antlers were dropped in their tracks. There were only two among the NRA's 5,000 reports. In one of these cases (at least) the skull had been split by the blow.

Possibly the surest way to lose a deer is to hit him (accidentally or otherwise) in a foreleg. For reasonable distances at least, a deer can travel nearly as efficiently on three legs as it can on four. Of the few kills credited to foreleg hits, none dropped in their tracks and trailing average was 325 yards.

The hind legs seem to be more vulnerable. Eighty-seven percent were pinned on the spot. Most of the hind leg kills occurred when a single bullet smashed the bones of both legs. In spite of that high average, the chances of carrying off such a hind leg shot successfully make it almost as undesirable a method as shooting the front legs out from under your deer.

One important killing zone remains for discussion. The NRA survey backs up the reputation of the spine shot, which has always been classed as deadly. Of all deer killed with shots in this area, 84 percent were nailed in their tracks. The average trailing distance for spine hits was barely over 13 yards.

The spine is one of the most vulnerable areas of a deer. Its fullest importance and deadly efficiency, however, is particularly apparent in connection with the even more deadly neck shot. It is here that the problems of lead on running game enter the picture.

How far ahead of a running deer should you aim? How can you estimate that distance? A plain answer is that, with the majority of moderately experienced city hunters, you can't. It is a rare deer hunter who, without considerable study, can estimate the speed and direction of a deer, apply that figure to the velocity of the cartridge he's using, and place his first shot exactly where he wants it in the split instant in which he must make up his mind. The majority of deer hunters are going to aim somewhere at the bulk of the deer or, if they do allow a lead, it is more apt than not to be less than the required distance for a perfectly placed shot. All of this adds up to one fact that can be agreeable or otherwise, depending on the place you're trying to hit. If you aim for the heart and the deer is moving faster than you realize, the bullet is apt to land somewhere in the gut. That, according to our averages, means that you'll probably have to follow him over a long and uncertain trail, if you recover him at all.

The neck shot, with its high record of efficiency, is another story. Aim at the neck and if you miscall your lead, chances are you will have one of two things: A smashed spine or a clean miss. The moral of that one is pretty obvious.

One more set of figures:

Only 12 percent of our 5,000 deer required more than one shot. Apparently a single, well-aimed shot is as efficient in the hunting field as it is with the military marksman. Obviously, the fact that a second or third shot is needed is flat evidence that the first shot failed to do the job. Placing a second or third bullet in a wounded, wildly running buck is no joke and the figures tell a sorry story. Deer that were shot more than once and, in many cases, in more than one anatomical region, had to be trailed an average of 144 yards.

Add to that the fact that nearly half of those shot-up deer were hit at least once in the heart region.*

Out of these 5,000 reports on deer killed, one paramount fact stands out. From every angle the neck shot is the answer.

From the standpoint of sportsmanship, the neck shot can mean more clean kills and fewer cripples. "Sportsmanship" may be a hackneyed term but all of us will deny a lack of it. Even if we were to deny sportsmanship, the urge to bring a deer out of the woods once a year is strong in the hunter's mind. Regardless of motive, most hunters will insist on trailing their wounded deer until they find it or until they are forced by distance or darkness to give up. For the city hunter, unfortunately, there must be an almost unbroken trail from shot to finish, or he is forced to abandon the trail of a wounded animal purely through lack of experience. It is conceivable that a single hunter oftentimes, without fully realizing what he is doing, can thus legally cause the death of four or five deer without recovering one of them.

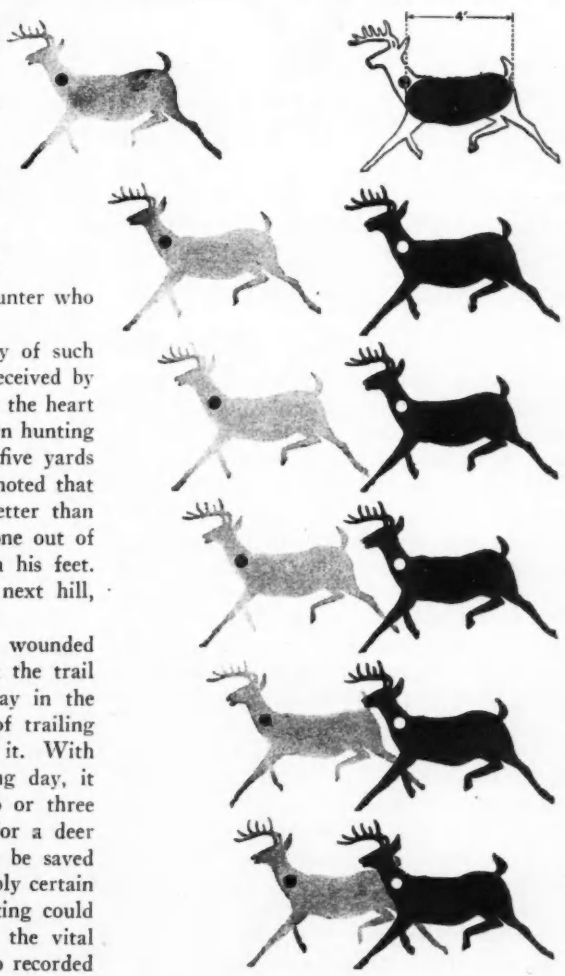
The more conscientious the hunter, the more will he realize the advantages of the neck shot. This is particularly true in heavily hunted eastern areas. A hunter from the uncrowded West will find it difficult to picture the shooting conditions in a state as crowded as Pennsylvania, with over 280,000 men in the field in 1945, and the number of hunters increasing each year. A surprising number of eastern hunters complained of losing wounded deer because the animals had run just far enough to be claimed by other riflemen. It is not at all unusual for a man to follow a long sweaty trail after an animal he knows is wounded, only to find it in the hands of another hunter who has finished it off.

Obviously, a neck hit will reduce the possibility of such unhappy occurrences. The hunter should not be deceived by that thirty-five-yard trailing average for deer hit in the heart region. Here again the crowded conditions of eastern hunting are factors. Many a deer has been lost in thirty-five yards of dense, heavily-hunted country and it should be noted that half of the deer trailed after a heart shot put better than fifty yards behind them before going down, and one out of four covered 100 yards or more and was still on his feet. In dense country, with another hunter over the next hill, figures like these mean lost deer.

The assumption that most hunters will trail a wounded deer until they have located it or completely lost the trail involves an important time factor. A hunter's day in the field can be largely wasted in the laborious job of trailing a wounded deer, and in the end he may not find it. With only ten hours of daylight in the average hunting day, it is poor business to cripple an animal so that two or three of those precious hours must be spent searching for a deer which may never be located. Many an hour can be saved if the hunter has used the neck shot and is reasonably certain of a killing hit or no hit at all. Productive hunting could be enjoyed if that first shot had passed close to the vital neck or spine for a clean miss. For every man who recorded shooting a deer in the heart zone and trailing it a half mile or more, there must have been thousands who lacked the ability, the daylight, or the character to follow their cripples that far. If this annual waste of game could ever be determined, it would be staggering.

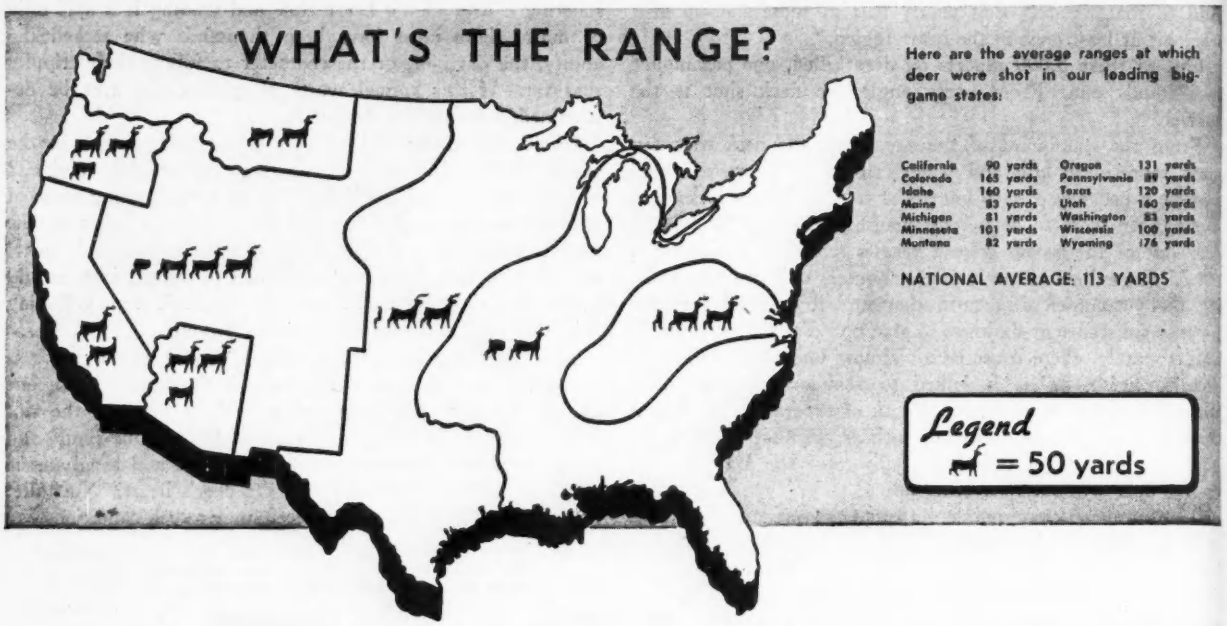
Choice of bullets and calibers seems unimportant in the case of neck kills. Even the scattered returns describing .22 rim-fire neck wounds indicated that no more trailing resulted than when the wound was caused by heavier loads in the same zone. That could never be said for your old favorite, the heart region. Here the bullet had to expand just so, and at just the right time . . . and still the buck went galloping over the ridge and into a convenient swamp.

It is not surprising that "proper" bullet performance is difficult to arrange when the target is the heart. From one angle, only a spongy lung and soft tissue between the ribs interferes with the bullet's path to the heart. One jump, and another view will interpose a mass of bone and tough tissue between the speeding bullet and the deer's heart. No bullet can be designed to expand perfectly under such conditions.



Here are the loads necessary for a 35-mile-per-hour deer at 100 yards with some of your favorite hunting loads. Lead for other cartridges can be figured from the average velocity figures (see text) to the right of each drawing

* *All "multi-shot" kills are combined in one figure, regardless of wound locations. Single-shot kills include those in which the animal was pinned to the ground by the first shot, and was unable to move even though still alive. Animals finished by a "coup de grace" were not considered multi-shot deer.*



Compare that situation with the neck shot. The neck offers practically the same resistance wherever you hit it. Even if you miss the vertebral column itself, a hit anywhere in the neck anchors your game. And if your slug, regardless of "bullet performance," gets into the bony structure, your deer is nailed to the spot. In reality, the neck is an almost perfect target. The vital processes are concentrated in that one zone. Disrupt that artery- and nerve-crowded column and the animal is anchored.

Let's look at the drawings. The first one (page 13) shows a series of target rings superimposed on the two aiming points —the heart and neck. As in target shooting, wind and error often cause nines and eights instead of dead-center tens. It is here that the neck shot offers another advantage to the average hunter. In the case of the neck area, a "nine" includes part of the equally vulnerable spine area, a portion of the heart area (shoulder) and clean misses. In comparison, a "nine" around the heart aiming point includes the crippling foreleg region and a small portion of the visceral or gut zone, as well as the effective neck and spine regions. Even an "eight" in the neck zone covers the head, spine, heart—or a clean miss. The same ring for the heart includes the legs and a large part of the gut zone in addition to portions of the neck and spine.

The case for the neck aiming point gains support when our deer picks up speed. The movement of a target involves lead and all of its possibilities for error. Excessive lead means clean missing and, for that reason, it is the lesser of two evils. But a shot directed with insufficient lead can cause a wasted morning of trailing or it can cause the wasting of a deer. Notice the diminishing impact zones which trail back from the heart and neck "ten rings" on the drawings. These are impact areas where bullets will land if the lead is underestimated. The case for the neck shot is strengthened by another fact not generally considered. Hits in the entire length of the backbone region are deadly, with 84 percent of its kills dropping in their tracks, and with an average trailing distance of only 13.2 yards. How does that stack up with the improperly led heart shot, which lands in the gut? The answer to that one should startle even the most hide-bound heart hunter. Of those belly wounds, remember, 56 percent required trailing, and the average distance was nearly fifty yards.

Some hunters feel that trailing brought about by incorrect lead is no great problem in their particular case. How about it? Here are some reasons why even an experienced hunter can have lead troubles.

The first is range. Our survey of 5,000 kills shows that the *national* average was 113 yards, with wide variations from state to state. The map shows a general breakdown by geographical region. Can you be sure of estimating that range correctly?

The speed of a deer is even more difficult to estimate. One investigator has clocked speeding deer at thirty-five miles per hour! The average bullet velocity over any given range, even approximately, is a figure known by few hunters, but it is vital in the determination of even a rough lead figure.

The last variable is a wicked one. Aerial gunners struggled with it through the long war years. To steal a term from the AAF, we can call it "angle-off." In simple terms, angle-off (in either fighter gunnery or deer hunting) means the angle between the bullet's flight and the direction in which the target is moving. Obviously, the 90 degree angle-off, with the deer moving directly across the hunter's path, requires maximum lead. What do you do though when your deer is heading off at a 30 or 45 degree angle? The point is that when the lead on a running deer is a matter of several feet, a gut shot can easily result from a fifteen or twenty-inch miscalculation if the heart is your aiming point.

Even if the proper lead for a certain cartridge, speed and angle has been determined in feet, it is going to be tough for the hunter to measure off that proper distance ahead of a buck that's dancing through the timber in *(Continued on page 44)*

PISTOLS at PERRY

From RAY STANN and PAUL CARDINAL

Camp Perry, Ohio, August 12—Technical Sergeant Huelet Benner, 29, straight-shooting Armored School instructor from Ft. Knox, Ky., was the big show here today in the first day of firing for the National All-Around Pistol Championship at the 63rd renewal of the National Rifle and Pistol Championships.

Tonight at the one-third mark in the race for the All-Around title Benner is leading the field of 600, having won the .22 caliber aggregate with a new record score and set one national individual match record.

Today Benner turned in an aggregate of 877 points out of a possible 900 in the .22 caliber competition for the new record. He broke the mark of 874 set by Harold Voelbel, New York City, in 1946. Benner's record score was made up of a 190 slow fire, a 196 timed fire, a 200 possible rapid fire, and a 291 over the National Match Course.

Lt. Col. Walter Walsh, USMC, of Arlington, Va., finished the day in second place with the same aggregate as Benner in the race for the big title but was outranked due to Benner's record-breaking rapid fire score. The army sergeant not only shot a 200 possible in that phase of the shooting but added 25 more tens before missing the black. Third place in the standings was shared by the defending champion, Harry Reeves, Detroit, Mich., and Emmett Jones, Los Angeles, Calif., police, at 871.

The day's shooting was started with the NRA Life Members Match over the National Match Course. Not counted in the title aggregate, it was taken by Alfred Hemming, Detroit, Mich., with a 291. Walsh turned in a 287 for the runner-up spot.

The championship firing got under way with the .22 caliber slow fire match. Emmett Jones' 192 showed the way, followed by 190's by Major Phillip Roettinger, USMCR, New York City, and Benner. Class honors went to M/Sgt. L. E. Painter, Marine Corps Base, San Diego, Calif., who led the Experts with 185, and Charles R. Barnett, whose 184 topped the combined Sharpshooter-Marksman division.

Jones came through with his second straight win in the .22 timed fire match. Both he and Walsh posted 199's but Jones outranked him. Reeves' 198 was good for third while Benner failed to place in the first five for the only time during the day. Expert winner was Alex F. Kellerman, Ft. Knox, Ky., 197. Best of the Sharpshooters turned out to be Edward Rothcoski, Pensacola, Fla., with a 193.

Benner got hot in the rapid fire match and set his record. Walsh followed him in with a 198 while William A. Nelsen, Toledo, Ohio, posted a 197, good for third. A. M. Murray, Arlington, Va., was top Expert, 196, while Robert E. Laycock, Tampa, Fla., led the combined lower classes with 195.

Capt. T. E. Barrier, USMC, Parris Island, S. C., came through in the final match of the day over the National Match Course with a 293. Reeves was a close second at 292 followed by Benner at 291. Carl Haynes, San Diego, Calif., and Charles W. Brasfield, Fairfield, Ala., topped the Experts and Sharpshooters, respectively, with 288's.

Camp Perry, Ohio, August 13—The record-shattering technical sergeant, Huelet Benner, of the Armored School, Ft. Knox, Ky., picked up his .38 caliber revolver here today during the second day of firing in the National Pistol Champion-

Huelet Benner's frown (right) isn't an indication that he is unhappy at having defeated Harry Reeves for the National All-Around Pistol Championship. Benner is just as delighted with the way his scores at Camp Perry put him on top as is Navy CPO John Young (left), new National Individual Pistol champ, and Mrs. Rosiland Noble (center), new National Woman's Pistol champ, but figures he's now carrying more of a responsibility

Three phases of every match at Perry: (above) Fire! (center) Score targets and put new ones up for the next relay! (below) Damn, I could have sworn that last shot was a nipper ten

ships and added insult to injury. He made a shambles of his pursuing field of 600 as he opened up a 15-point lead for the All-Around Pistol championship, pocketed two more titles, the Center-Fire Aggregate and the NRA Target Pistol and Revolver Championship, and set another national match record.

Accompanying Benner on his victory road was Mrs. Rosalind Noble, Dayton, Ohio. In an upset victory over Mrs. Alice Matthews, Broomall, Pa., Mrs. Noble dethroned the 1946 National Women's Pistol Champion and donned the mantle for '47.

Benner, unless he suffers a complete reversal of form tomorrow with the .45, has accomplished the impossible—he has defeated Harry Reeves, of Detroit, Mich., and taken the National All-Around Pistol title away from the heretofore invincible policeman for the first time in seven years. At the two-thirds mark Benner has posted a score of 1751 points out of a possible 1800, for a new record, and has taken a lead of 27 points over the defending champion, who is in third place. Wedged in between the two is Emmett Jones, of Los Angeles, Calif., at 1736. While his task of overhauling Benner is not as impossible as Reeves', Jones is given little chance to do so.

Benner totalled 874 of a possible 900 points in today's four center-fire events to top all entries with the .38 and .32 caliber guns and earns his second title of the meet. Yesterday he won the .22 caliber championship with 877 points.

Totalling the two days' work gives Benner 1751 out of a possible 1800 points and his third national crown, the NRA Target Pistol and Revolver Championship. This represents a new mark for the eight-match course, topping the 1742 Reeves set in '46.

Tragedy overtook Lt. Col. Walter Walsh, USMC, of Arlington, Va., after tying Benner in the aggregate score yesterday in the fight for the All-Around title. He miscalculated relays in the timed-fire match today, forfeited his chance to shoot, and lost two hundred possible points, knocking himself out of contention for the championship toga.

Mrs. Noble's championship winning score was 1575 points out of a possible 1800, seven points better than Mrs. Matthews could rack up. Third, fourth, and fifth places went to New York City policewomen Eva C. Hanson, Adelaide Knowles, and Morrice A. Baer.

Top Expert in the NRA Pistol and Revolver Championship was Lt. Col. T. C. Kelly, USA, of Patterson Field, Ohio. He posted a 1709. H. D. Brigham, Jefferson City, Mo., scooped the Sharpshooters with a 1661.

The center-fire class winners were: for the Experts T. C. Kelly, 850, and H. D. Brigham, Jefferson City, Mo., Sharpshooter, 832.

Of the day's four individual center-fire matches Benner won two. He took the slow fire match with a 194 and the rapid fire fracas with 195. In the timed-fire and National Match Course contests he placed fifth with 198 and 287.

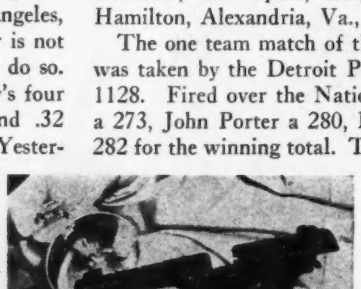
Herbert E. Walmsley, Seattle, Washington, took second place money in the slow fire with a 188, as Expert T. C. Kelly topped his class with 187. A 181 gave C. E. Coffin, Jr., Chevy Chase, Md., Sharpshooter honors.

A timed-fire 200 possible gave Maurice Lalonde, Detroit, Mich., a victory in that match. He was followed by Emmett Jones, at 199. Expert Lloyd F. Markle, Denver, Colo., (196) and Sharpshooter Jack D. Gilmor, Seattle, Wash., (193) were the class winners.

Christ Anton, St. Louis, Mo., matched Benner's 195 in the rapid-fire but was outranked into second place. Steady-shooting Kelly again topped Experts with 194 as Robert E. Laycock, Tampa, Fla., won Sharpshooter honors with 187.

Reeves' solace was a victory in the last individual match of the day over the National Match Course. He gathered a 293 in the three stages to beat Walsh by one point. With his victory Reeves took the Clarke and McGinley trophies which were put up for contention in this match. Expert Joe F. McMeel, Shreveport, La., and Sharpshooter Edward B. Hamilton, Alexandria, Va., posted 282's to take class honors.

The one team match of the day, the NRA Trophy contest, was taken by the Detroit Police Pistol Team with a score of 1128. Fired over the National Match Course, LaLonde had a 273, John Porter a 280, Reeves a 292, and Al Hemming a 282 for the winning total. The St. Louis Police Team made up of Paul Spavor (291), Christ Anton (283), Frank Stubits (268) and John Dohert (272) pinned up a 1114 to finish second. Expert class honors went to the Missouri State Highway Patrol and Sharpshooter laurels to the Dutchess County Pistol



Association, of Poughkeepsie, New York.

Camp Perry, Ohio, August 14—Technical Sergeant Huelet Benner, Armored Force School, Ft. Knox, Ky., here today was crowned the 1947 National All-Around Pistol Champion. In a well-earned, though surprising three-day victory he did what the American pistol world had thought impossible—dethrone Harry Reeves, of Detroit, Mich.

In ending Reeves' seven-year reign, Benner fired the highest aggregate score ever achieved on the Camp Perry range with the .22 caliber, the .38 caliber, and .45 caliber handguns. He posted a 2609 out of a possible 2700 points. Appropriately enough, Reeves finished second to his conqueror with a 2582.

Benner in the three days of firing established himself as a champion in every sense of the word. He swamped his field of 600, finished 27 points ahead of his nearest competitor, and on the way to victory established several new records. In the final one, the All-Around aggregate, he topped the old mark by 25 points to rub out Reeves' 2584 set in 1946.

Benner started today's .45 caliber competition with a 27-point bulge he had built up with the .22 and .38 guns. It was expected that Reeves, who is considered the country's best with the big weapon, would cut several points off the Army sergeant's lead to make the finish much closer. However, when the day's totals were in both men had 858's for the four matches. Reeves did manage to keep Benner from a clean sweep in the National Championships by outranking him for the .45 caliber title.

The All-Around class titles went to Expert Ralph S. Marshall, of Lima, Ohio, with 2502, and Sharpshooter Charles W. Brasfield, of Fairfield, Alabama, with 2406.

The .45 aggregates found Emmett Jones (846) third to Reeves and Benner, followed by Alfred Hemming (841) and Walter Walsh (840). Norman Studt (824) was top Expert and Ralph S. Marshall (824) led the Sharpshooters.

Maurice A. Lalonde, of Detroit, Mich., opened the day's individual match firing in the slow fire contest with a 189 victory. He was followed by Benner and Reeves with 188 and 185, respectively. Expert Ellis Lea, of Madison, Wis., and Sharpshooter Ralph Marshall topped the classes with 180's.

Walter Walsh Alice Matthews Emmett Jones

Sharpshooter Martin G. Taylor, Hamtramck, Mich., won the timed-fire shoot with 197, followed by Jones (195) and Walter S. Bakutis, of Washington, D. C., with 194. Bakutis was the high expert in this match. Reeves also had a 194, but was outranked into fourth place while Benner's 193 left him out of the money.

Reeves got a first in the rapid fire, recording 195. Walsh had 194 for second and Benner 193 for third. R. R. Becker, 1st Marine Division, and Marshall led the classes with 188 and 186, respectively.

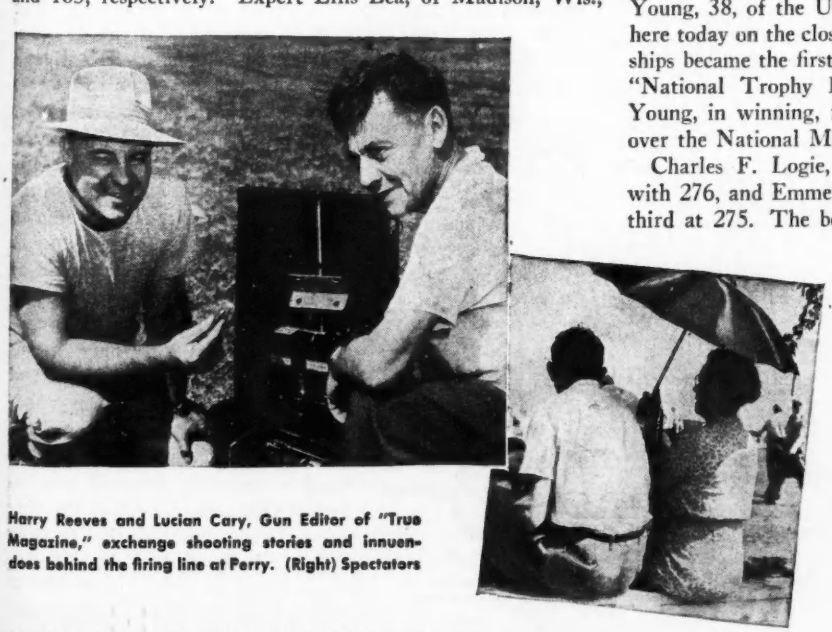
In the final match of the day over the National Match Course, Hemming (286) led the way, followed by the close fighting Reeves and Benner. They both had 284's but Benner was outranked. This time Richard A. Stickley, South Bend, Ind., topped the Experts with 279 and Marshall registered another win over the Sharpshooters with 270.

In the one team match of the day the Detroit Police team scored its second victory in two days. Maurice Lalonde (289), John Porter (288), Harry Reeves (291), and Alfred Hemming (276) teamed up for an 1144 win over the Air Material Command team (Patterson Field, Ohio) which posted 1129. The Washington, D. C., police took Expert honors and the Toledo Revolver Club the Sharpshooter.

Camp Perry, Ohio, August 15—Chief Petty Officer J. A. Young, 38, of the USS Battleship Iowa, and Seattle, Wash., here today on the closing day of the 63rd National Championships became the first Navy winner of the War Department's "National Trophy Individual Pistol Match" in 40 years. Young, in winning, fired a 279 out of a possible 300 points over the National Match Course with a borrowed .45.

Charles F. Logie, Grand Rapids, Michigan, was second with 276, and Emmett Jones, Los Angeles Police Lieutenant, third at 275. The best the new National All-Around Pistol Champion, Huelet Benner, Fort Knox, Ky., could do in the match first instituted by the War Department in 1904, was finish in a tie for fifth at 272.

In the War Department's National Team Match, the Los Angeles Police Team finished first with a score of 1068 points out of a possible 1200. The individual team member scores were: Basil Starkey, 275, W. R. Stark, 267, E. E. Jones, 281, and W. D. Barkley, 245. The Detroit Police Team placed second with 1049, followed by the San Diego Marines. ♦ ♦ ♦



Harry Reeves and Lucian Cary, Gun Editor of "True Magazine," exchange shooting stories and innuendoes behind the firing line at Perry. (Right) Spectators

LEAGUE SHOOTING

By JOHN TOKAR

NOW THAT WE HAVE once again resumed our peacetime mode of living, sports and hobbies are coming to the forefront as national activities. Along with golf and photography, rifle and pistol shooting have shown a tremendous growth of interest in the months since V-J Day.

This interest shown by embryonic "gun bugs," intense though it is, soon wanes unless organized shooting activities are made available for its growth and development. Our experience has shown that the properly organized and efficiently conducted shooting league is one of the best means of making "dyed-in-the-wool" shooters out of neophytes, along with providing recreation for all who partake in the league activities.

The regular attendance at the league match is a welcome diversion from the everyday routine of work or business. The league match provides a place where shooters may engage in a liberal interchange of ideas, where they can discuss their mutual problems, and where old alibis are resurrected and new ones born (if possible). There are many in this shooting game of ours who derive most of their enjoyment, not out of the actual shooting, but out of the friendly companionship with other specimens of *homo sapiens* in whose veins flow good red blood with a mixture of the virus of the "gun bug." A league will soon become a second home to them.

In addition to its social aspects, the league provides a uniform method of conducting shooting competition that has proven to be satisfactory to all who take part in it. The shooting league is not limited to those whose interest in shooting is purely as a sport or hobby. Military and military reserve groups should by all means organize leagues. There is no better way to determine and evaluate the shooting ability of the various teams and individuals taking part. The league program provides the competition between units which is the breeding ground of a strong esprit-de-corps that makes for a healthy group morale, plus providing training and recreation for those actively engaged in the shooting program.

Police organizations, bank and industrial guards should organize and promote shooting leagues. These are the persons whose very lives depend upon a thorough knowledge of arms, plus confidence in their abilities to use them. The league provides that *regular* practice which is essential in providing these men with confidence in their ability to hit only what they shoot at. The spirit of competition which is the life blood of the league removes the drudgery of ordinary practice, with the result that these men gain proficiency in the use of their guns at an amazing rate.

Shooting leagues provide an ideal medium for the selection of teams for interstate or intrastate competition. Participation in an organized league provides the individual shooter with a time and a place to "show his stuff." Shooting members of state or regional teams are very often picked from the results of league schedules. Those shooters who maintain consistently good scores in league matches are considered good material from which to build strong teams. The rivalry and competition present in all shoulder-to-shoulder league matches hardens these shooters so that they are not greatly affected by that form of buck fever which we call "the ready-line jitters." The league really makes seasoned shooters out of those who wholeheartedly take part in the program.

What makes a good league? The answer is the same as to what makes a good club: Work and self-sacrifice of the officers, plus the enthusiatic support of the members. The participating John and Jane Does must be pleased, and they, in turn, must show their appreciation. The operation of the league must be carefully analyzed and planned. Wherever possible, all shooting should be shoulder-to-shoulder. There have been a few good postal leagues, but the ones that keep going from year to year with a steady growth in number of competitors are those leagues where all matches are fired shot-for-shot and shoulder-to-shoulder. The match reports and bulletins must be issues promptly and well in advance of the next match on the schedule. The duration of the schedule should be long enough to satisfy yet brief enough to prevent shooters from becoming stale. Where there are a large number of competitors, the schedule may be arranged in sections with the sectional champions shooting off for the league championship.

The prizes should be substantial and the awards made promptly. Too often the league ends in March with the prize awards made in August or September. This is quite a common fault of some leagues and bespeaks of poor management. The successful league needs as officers, those men whose first concern is for the recreation and enjoyment of the shooters. The league operating staff must be complete, efficient, and thorough in doing their jobs. Shooters are quick to observe flaws or omissions. Reports must be checked and, of course, the scores and standings must be carefully tabulated. A little extra care in the statistical office pays off in a smooth running league.

Well, officer, I'm afraid to keep a gun in the house . . . and afraid to stay in the house without one!

And finally, the league should by all means be registered with the National Rifle Association. This registration provides the only means whereby all of the Joe Doakes and Mary Smiths can be given a national classification based on the scores fired in these leagues. So, brother shooters, let's all get together and make this next shooting season more enjoyable by flooding this fair land of ours with shooting leagues. ◆ ◆ ◆

IN THE SOUTHWEST TODAY, THE KID MAY BE CURSED AS A KILLER OR PRAISED AS A GALLANT. BUT HE IS NOT FORGOTTEN

BILLY THE KID

By E. B. MANN

William H. Bonney, Jr., son of William H. and Kathleen Bonney, was born November 23, 1859, in New York City. Twelve years later, in Silver City, New Mexico Territory, he killed a man who had insulted his mother. In 1878-9, still in his teens, young Bill Bonney was the central figure in the bloody Lincoln County War in New Mexico Territory. On the night of July 13, 1881, in Pete Maxwell's house in old Fort Sumner, Pat Garrett fired the shot that killed Bill Bonney, alias Billy the Kid—an outlaw now, with a price on his head and twenty-one dead men to his credit. He was twenty-one years old.

THERE, IN ONE SHORT paragraph, is the story of Billy the Kid. Not a pretty story; nothing in it to attract attention — except, possibly, that this man killed one man for every year of his life. Not a pleasant character, you'd say. Not a fellow you'd like to know.

Yet few men, good or bad, ever managed within the short span of twenty-one years to leave such a deep and lasting imprint on the country in which they lived. Few men have so stirred the hearts and the imaginations of so many people; few have been better loved; few have been more bitterly hated. Those loves and those hatreds still live in this Southwestern country; and the man who calls Billy the Kid a hero or a cur had better, even today, be sure of his company!

The same is true if one speaks of him as a gunman. Say that he was the greatest gunman the West ever produced—the fastest, the most accurate—and you have a host of supporters. Say that he was not, and another host will flock to support you. Men who knew him say that he was a dead shot with either rifle or revolver, lightning fast, incredibly accurate. Others say that he was just a "sure thing" killer who had only average skill with weapons, downing his man always from the rear or from ambush.

Which is true? Was Billy a gun wizard or a phony? How good was he?

There is one kind of evidence which we who shoot today never question. That is the evidence written on the target, after the shooting. It's the hits that count there! It is the test of performance that "separates the men from the boys," as the saying goes. So, let's see how Billy performed; not at targets, but in battle.

Let's take, for example, the famous "Three-Day Battle"—the major engagement of the Lincoln County War:

It would be impossible in this space, and beside the point of this story, to state the causes of the Lincoln County War. Its roots lay, doubtless, in the feud between John Chisum and L. G. Murphy. John Chisum was one of the truly great "cattle barons" of the Southwest, a Texan who early moved his family and his immense herds to the New Mexico ranges to be nearer existing markets. L. G. Murphy was a cattleman, too; but it was Chisum's claim, right or wrong, that Murphy's profits came mainly from Murphy's skill in marketing cattle that wore, or should have worn, Chisum's Long Rail brand and Jinglebob earmark.

Murphy, together with his partner, James Dolan, also owned various businesses (a store, saloon, hotel, et cetera) in the little town of Lincoln, county seat of what was then the biggest county in the United States—a county as big as the present state of Pennsylvania. It was to the detriment of the Murphy-Dolan interests, naturally, when Alexander McSween (a lawyer, educated first for the Presbyterian ministry and still deeply religious) and J. H. Tunstall (an Englishman of wealth, culture, and social standing who had come to New Mexico and fallen in love with its climate, its scenery, and its people) opened competitive establishments. It was out of these beginnings that the Lincoln County War grew; and it was purely incidental, at

this point, that Billy the Kid—aged now about eighteen—should have arrived in Lincoln and should have made the Englishman, Tunstall, his friend and idol.

It was the cold-blooded and brutal murder of Tunstall, which was the opening act of the actual "shooting war," that flung Billy the Kid heart and soul on the side of the McSween faction. For, by one of the strangest freaks in history, McSween—a man completely lacking any of the characteristics of the fighting man except courage—is best remembered as the "leader" of one faction in one of the bloodiest feuds the West ever knew. (Actually, of course, within a short time, Billy the Kid was the real leader of the McSween forces so far as the fighting was concerned. This was more or less inevitable; because Billy the Kid, in spite of his youth, had exactly the fighting characteristics that McSween lacked. Billy was a fighting man par excellence; and he had, in addition, a grim hunger for revenge against the killers of Tunstall.)

The climax of the Lincoln County War came with the three-day siege, by Murphy-Dolan warriors, of the McSween house in Lincoln. Eleven men made up the fighting garrison of the McSween house: McSween himself; Billy the Kid, and his pal, Tom O'Folliard; Ignacio Gonzales; Harvey Morris; Vincente Romero; Jim French; Francisco Semora; "Doc" Skurlock; Ygenio Salazar; and Jose Chavez. Other McSween partisans were in other houses in Lincoln and in the McSween store; but it was around the McSween house that the fighting centered.

Arrayed against them were the Murphy-Dolan forces, backed by Sheriff Peppin. It would be unfair to assume, however, that the mere presence of a Sheriff in the opposing ranks proved the lawlessness of the McSween position. Politics then, as now, was an involved profession. Billy the Kid himself, and others in the McSween faction, believed (with considerable reason) that *they* were officers of the law in Lincoln County. Frontier "law" swapped sides frequently and frequently rested in strange hands; and certainly not all of the law nor all of the lawlessness was on either side in this instance. On both sides lay murder; on both sides were hired warriors—gunmen; professional killers. On both sides, undoubtedly, were honest men.

The third day of the siege saw the McSween faction in dire straits. The McSween house was on fire. Of twelve rooms, built in the shape of a U, with adobe walls, the fire (set at the end of one of the wings by a Murphy torchman) had traveled slowly along the wooden floor and roof until, as night fell, only the kitchen at the far end of the opposite wing was tenable.

Alexander McSween was there, his Bible clutched in his big hands. He was dazed, unable to credit the disaster which had befallen him. He was a Godly man, a man not given to violence, a man who had never fired a shot in anger in his life, who had fired no shot nor even carried arms throughout this war, not even in this last battle. He was unarmed now.

Billy the Kid was there, probably bright-eyed with the excitement that was, to him, a tonic. Around these two the others crouched and waited, each one frigthened or defiant according to his nature.

Outside the kitchen door a courtyard, redly lighted now by the glare of the fire, lay surrounded by a waist-high wall. Around that wall death lay in wait; death in the form of ready guns in expert hands. For the Murphy-Dolan men had closed in now, foretasting victory.

The choicest of all the prizes about to be delivered into their hands was Billy the Kid. McSween they hated and despised; but it was for McSween's gun-swift little lieutenant that they reserved their most blood-thirsty hatred. For Billy, their hatred was distilled with fear—and no mixture can be deadlier.

The kitchen door swung suddenly open. Two men leaped out into the red firelight and the waiting riflemen behind the wall let out an exultant yell as they opened fire. Harvey Morris and Francisco Semora stumbled as they ran, tripped by the blazing guns, and fell—dead. Vincente Romero came next—and died almost before he cleared the door.

McSween was next; and McSween did not run. He came out slowly, like a man in a trance. Behind the wall another yell went up and the guns cracked a ragged, staccato volley. McSween went down. A man yelled exultantly as McSween fell, and waved his rifle over the wall. A dozen slugs had hit McSween and no man could tell for certain which bullet had killed him; but Billy the Kid knew that boasting yell and noted it. The boaster was Bob Beckwith.

More shots jolted McSween's inert body. Then other men came through the door. One by one, Jim French, Jose Chavez, Ignacio Gonzales, Doc Skurlock, Ygenio Salazar, and Tom O'Folliard dashed into that death-ridden courtyard—and, miraculously, all but Salazar got through! O'Folliard and the others reached the wall, rolled over it into the darkness.

The Kid was last. Ten men had run that gauntlet of criss-crossing fire, and five had reached the safety that lay beyond the wall. That was very good; much, much better than The Kid had expected. Why, the odds, according to that, were even!

But the odds were not even for him! He knew that very well. He was the chosen one; the one man in the McSween faction most bitterly hated by those men behind the wall. He could hear them yelling, "The Kid's next! Get ready! Get The Kid!" . . . No, the odds would not be even for him! Every man out there would take especial care; every bullet would be winged at The Kid with a special hatred.

He may have grinned thinly, a little proud of that hatred which he had won in such full measure and for such just cause. He came out fast, his small feet moving precisely, as deftly as a dancer's, as he picked his way past the bodies of the dead. And his hands were busy, too. The guns he carried beat out a quick, uneven rhythm. Lead sang around him, snagging his clothes, grazing him in its hot passage. Once, a bullet clipped the heel of his boot and almost tripped him.

Bob Beckwith, the man who claimed that he had killed McSween, toppled across the wall. One of Billy's bullets had found him. He was dead before his rifle landed. . . . John McKinney caught another one of those bullets. It hit him in the mouth, carrying away his upper lip. . . . A man named Pearce felt a third of Billy's slugs. It notched his ear.

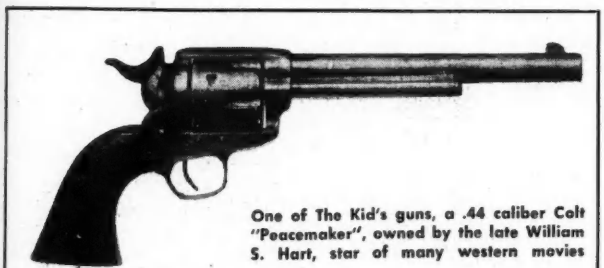
Some twenty men shared in the fusilade that sought The Kid's life there in the little courtyard back of the McSween house; twenty experienced warriors with repeating arms (rifles and revolvers) pumping bullets, each bullet sped with personal hatred. Bullets ripped The Kid's shirt. They bored holes in his hat. They slashed the holsters at his hips. But not a bullet touched him!

He yelled once in shrill, boyish defiance as he cleared the wall—and was gone into the darkness. No man followed him. Following that small but deadly wolf into the dark was a pursuit for which no man in that gathering had any liking. The Murphy-Dolan men danced and yelled in a savage orgy around the dead there in the McSween courtyard, celebrating their victory with drinks and boasts. But the man they wanted most was gone.

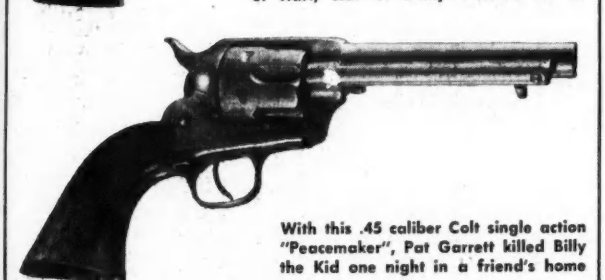
So what do we know regarding Billy the Kid's skill with guns? This was not at targets, remember. This was in swift, kill-or-be-killed action. The chips were down.

One man killed, two others hit; that was The Kid's score in those swift seconds as he ran, skipping and twisting over and around the dead, across that courtyard. Those were the hits. . . . What is your verdict? . . . Mine? I'd say it was good shooting!

The misses? Well, no man will ever know how many



One of The Kid's guns, a .44 caliber Colt "Peacemaker", owned by the late William S. Hart, star of many western movies



With this .45 caliber Colt single action "Peacemaker", Pat Garrett killed Billy the Kid one night in a friend's home

Picture of The Kid's "Peacemaker" is from "Pardner of the Wind", by Jack Thorp and Neil McCullough Clark, published by Caxton Printers, Ltd., Caldwell, Idaho. It is used by special permission of the copyright owners.

shots were fired at Billy as he made that dash. Would it be too much to say, as the wildest of guesses, that fifty shots were fired at him? Or might it have been a hundred? . . . However many it was, they missed. And those misses were scored by experienced gunners, shooting from chosen positions, at a swift-moving but nearby target. . . . Explain it if you can!

Perhaps the explanation is this: Perhaps Billy's own accurate shooting, coupled with his reputation as a killer, served as a shield around him. What else other than fear of him could have so shaken those otherwise deadly marksmen—men hired because of their skill with weapons—as to cause them to miss him? For that matter, what other than supreme confidence in his own prowess could have steeled The Kid to make that dash, when surrender would have been so easy?

The Lincoln County War had reached such proportions now that repercussions of it were heard in Washington, and President Rutherford B. Hayes appointed General Lew Wallace (author of *Ben Hur*), Territorial Governor of New Mexico, with specific orders to end the feud.

Wallace's first step to that end was to issue a proclamation of amnesty to all fighters (except those actually under indictment for crime) who would lay down their arms. Some men accepted amnesty, some did not. Billy the Kid was one of the majority who did not. Embittered by the war, convinced that the law of the Territory was controlled by his enemies, Billy was now truly an outlaw; a rustler, leader of a gang composed mostly of other ex-McSween warriors.

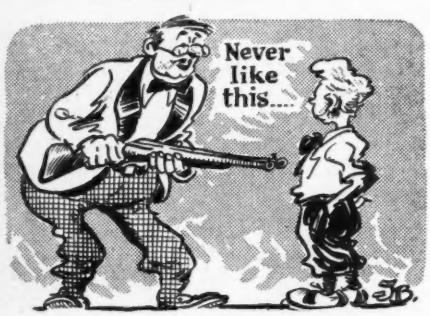
But there was something of the Robin Hood about him, even now. He robbed the rich, but he was beloved of the poor. The people with Spanish names, particularly, adored him. Time after time they gave him shelter when he might otherwise have been killed or captured.

Governor Wallace determined, finally, to talk personally with The Kid, and the meeting took place in Lincoln, with the town under military rule for the occasion. Again, Billy refused the Governor's amnesty. Laying down his guns, he said, would be akin to suicide; and he would not be driven out of a country in which he chose to live.

Stubborn? Yes. Misguided? Certainly. Boys of nineteen are apt to lack judgment; apt to be stubborn about things which seem to them to involve their personal courage or the lack of it. But it was Billy's decision; and it made him an outlaw beyond redemption, fair game for all hunters.

It was Pat Garrett who got him; killed him with a shot out of the darkness in Pete Maxwell's bedroom in old Fort Sumner. Billy stepped into Pete Maxwell's room, barefooted, armed only with a butcher knife, to ask Maxwell for permission to cut a steak off a recently killed beef. Garrett, seeking Billy, had come to Maxwell to ask *(Continued on page 38)*

Hair Triggers . . .



NOW COMES THAT TIME of year when the Great American outdoors sounds its summons far and wide across our vast land. And within the next dozen weeks the Slap-Happy Hunting Ground will claim as its own Lord-only-knows-how-many who went forth to shoot—and got shot!

Game wardens, landowners, and farmers have a downright mistrust of the gunning season . . . so have insurance companies. It does seem too bad that something as relaxing and beneficial as hunting can be, has become almost as besmirched nationally as "pleasure driving"—and for the same reasons: Carelessness, Ignorance, and Selfishness.

It is amazing to scan the records of last year's hunting casualties—to see in cold type the idiotic things so-called intelligent folks did with firearms.

Let's take a "trigger happy" swing about the country, and just peep at the high spots of press releases on what high-power loads and short-range minds did for, and to, American hunting . . . and please don't laugh out loud, Brother. A lot of folks with tear-stained cheeks fail to see any humor in these little newspaper items.

We'll start with California—that great Pacific Coast state which boasts (?) the annual championship in highway motor deaths, also does a creditable job on the number of gunshot funerals.

Just to insert a pair of gems: Young Bill Chernoff had returned from a most successful duck shoot, and his mother wanted to snap him with his bag and gun for the family album. But first she asked him if his gun were loaded. "No, maw," said Bill, poking the 12 gauge barrel at his head . . . "See?." He pulled the trigger—Maw never clicked the shutter!

And when Paul Woodruff, Jr., tried clubbing a raccoon to death, his shotgun discharged and removed some of his very important insides. Paul, Sr. grabbed up his dying son's gun and continued swatting the hardy coon. Barrel No. 2 let go, and Mrs. Woodruff told the undertaker: "Make it two!"

In Oregon, Don Rolinson, an Army sergeant on terminal leave, celebrated his final and complete recovery from Nazi-inflicted wounds by going elk hunting. Back to the hospital he went, severely wounded again . . . by a companion's ricochet . . . off an elk's antler!

Just a few rifle shots away from that one, Kenneth Kollman's "black bear" turned out to be a hunting pal, and close friend, who died with a .30 caliber slug in his lung. Ken was held for manslaughter.

A Montana wolf hunter got off luckier . . . and we hope wiser . . . when he rested his rifle, muzzle down, on his boot. The bullet ripped a hole clear through it—passing between his toes!

A New Orleans sportsman who went big-game gunning on a friend's multiple-acred Texas ranch used a telescoped .270 on "th' biggest consarned mountain lion Ah evah seen" . . . and smashed the right foreleg of his host's prize palomino grazing on a fenced range.

An Oklahoma father, explaining the danger of a shotgun to his twelve-year-old son, said, "You never point it toward anyone this way" . . . and proceeded to tattoo his heir-apparent's hip with a score of 12 gauge pellets.

Bennie Bengtson, a RIFLEMAN correspondent in Minnesota, sends us a few classic examples of pea-brained shooting mishaps in his state and neighboring Wisconsin. One bitter day a hunter drove his car into the brush and tenderly covered its radiator with a fur robe. He then made a wide circle through the woods . . . finally spotted a "standing deer" . . . and pumped three bullets through . . . you guessed it . . . his jalopy's radiator.

Another Minnesotan, one Larry Robertson, out after a nice, big buck, was so scared by bullets following his passing through dense brush that he jumped up on a tree stump hollering and waving his arms. Then he was properly shot . . . through the legs!

and Hare Brains

What could have been a terrible tragedy was the mistake a Wisconsin man made when he fired at a school bus—injuring the driver and ditching the vehicle. He explained to police he thought the tail lights were a deer's posterior. That gentleman either needed stronger glasses—or weaker bottles!

A Pennsylvania hunter, having bagged a fine four-point buck on Bald Eagle Mountain, was packing it out *on his back* . . . with the animal's forelegs drawn down over his shoulders and tightly thonged under his chin. He was furious when he reached the shooting lodge. "Damned fools," he stormed. "They don't know a deer from a man! My buck was shot twice while I was carryin' 'im down!" (He should have included one other in that 'damned fools.')

A hundred or so miles north, a smart New York rifleman decided he could "post" the land more advantageously from the crest of a haystack. The quick-firing lad who neatly plugged him between the eyes said he thought it was an owl! . . . hmmm, not such a wise bird.

No . . . don't go 'way . . . it goes on and on!

In Massachusetts, a youthful Nimrod downed a snowshoe bunny, and tied it to his belt for carrying ease. The bullet which instantly killed the youngster was fired at what another hunter was positive was a "Whitetail's fanny-flag."

But some sort of an Idiot's Oscar should certainly go to the slick-thinking smart aleck in Maine who was sure an elusive black bear had sought refuge in an old hollow tree. Mr. Smart Guy not only built a fire in said tree . . . he threw in a couple of .30-30's "to shoot th' durn critter out." While he chuckled over his strategy, a .30-30 slug tore through his right shoulder.

In southern Maryland, a bleary-eyed, early morning hunter let go both barrels—most unsportsmanly—at a flock of sitting ducks. Not only were the beautiful Mallard decoys badly splintered, but the two hunters huddling in the blind behind them were severely pelleted.

We have by-passed the countless hundreds of hunting accident causes which are repeated so often they fall in the commonplace class—pulling loaded guns muzzle first out of cars, snagging triggers in fences and bushes, mixing alcohol and gunpowder, dirt-clogged barrels, falling guns, using wrong or faulty ammunition, and the old favorites: "Didn't know it was loaded," "Was only cleaning it," "Only joking," "Doesn't a deer sometimes moo?" and dozens of others equally daffy and equally dangerous.

But they all add up to a series of serious black marks against one of the oldest and greatest of all sports. At least 90 percent of these accidents could have been prevented with the use of common sense and beforehand preparation. Entirely too many would-be hunters go blithely afield only vaguely acquainted with the arms they are carrying and positively ignorant of the capabilities of the ammunition they will fire in them. They take no pains to familiarize themselves with state regulations nor do they stop to consider the rights of property owners over whose land they will pass. And in many cases, believe it or not, they are totally unfamiliar with the appearance and habits of their quarry. The same man who would scream to high heaven at the mere thought of taking off with a pilot who had "flown a ship just a couple of times before," won't hesitate to take off on a hunting trip with some fellow who admits he "doesn't know the safety from the sling!"

It's really up to you . . . the country's hunting gentry . . . to protect yourselves, your friends . . . and your sport! You must do everything in your power to push The Grim Reaper out of our forests and fields. And don't say you can't do anything about "the other fellow" . . . you can! A friend who wishes to take up hunting can learn much from you and your books. A flagrant violator of good hunting customs should be warned . . . or turned in . . . or both . . . providing, of course, you are fortunate enough to be a witness and not the victim!—JIM BERRYMAN. ♦ ♦ ♦

A Pistol Shooter Grows Old

By CHARLES LEWIS

FOR THE PAST TEN years my pistol scores have been steadily improving. Today, at fifty-seven, I am shooting my best. There's a reason for this improvement, and it is not that "life begins at forty." My shooting life began at the tender age of seven.

The span of my fifty shooting years has not been a shining pattern of ever-increasing prowess. Quite to the contrary, it has had its fair share of intermixed periods of disgust, quiet satisfaction, and, at times, mild elation.

Every shooter, on growing older, must sooner or later cope with one or more physical handicaps, but the one of paramount importance to the handgunner, I believe, is failing or changing eyesight. With this in mind, I offer to my brothers-in-handguns a few personal experiences in meeting and overcoming the problem of aging eyes.

Thinking back to the time when I was fifteen to twenty-five years old, I recall that when I sighted a pistol or revolver at a target, the sight picture as a whole seemed excellent; the back sight, front sight, and the target were sharp, clear cut, and black. The top of the front sight was on a line with the top of the rear sight and the bullseye just tangent to the top of the front sight at six o'clock. You know the picture; it has been described many a time.

For the next five years, that is from twenty-five to thirty, I had little opportunity to shoot, but during that period I found that my eyes were not acting just the way they should, and a trip to the oculist resulted in my wearing glasses.

On starting to shoot again, thirty years old and wearing glasses, the sight picture was not so good; no longer were the front sight, back sight, and bullseye clear, sharp, and black. With considerable strain, the front and rear sights could be seen about the way they used to look, but the bullseye was egg-shaped, fuzzy around the edges, and dark gray instead of black. The sharp, exact six o'clock hold was no longer possible.

I found that it was possible to concentrate my focus on the bullseye, so that it looked sharp and black, but then the sights themselves became blurred. I decided that the way out of this evil situation was to concentrate on the sights and line them up as best I could on what was known to be the bullseye, even though it did look like a bent lemon edged with monkey fur.

In spite of the changed, and rather difficult sight picture, I was gratified that the scores were holding their own, or even improving slightly, for a few years. Then along about forty (when "life" was supposed to be beginning) the real blow fell; no longer was a single pair of glasses adequate for the old orbs—they up and demanded bi-focals!

When I first wore them, they drove me nearly crazy, and when I tried to use them at the range—well, words fail me. I thought that my shooting days were over.

I remembered, however, that I had saved some of the old lenses, as they became replaced with stronger and stronger ones, and by trying them out, one by one, I finally had a set rigged up for "shooting glasses" that seemed to more or less do the trick. I continued to shoot for several years with some degree of satisfaction. But all the time, I could not help but feel that something could be done, something which would enable me to see even better.

At long last, the idea came.

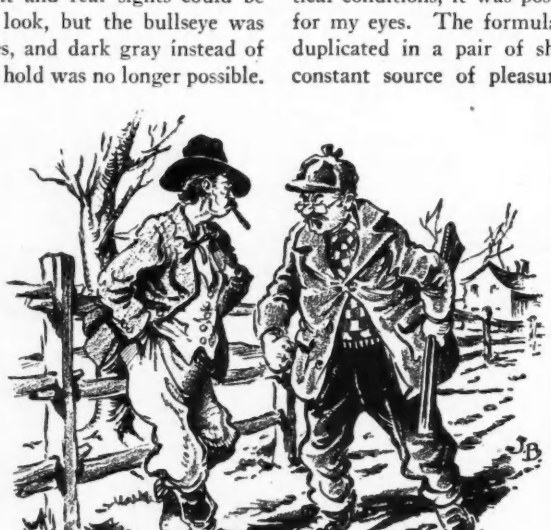
I put my favorite handgun into a brief case and went to see my oculist. Before opening the case and revealing its contents, I was careful to explain that I was not really sore at him, certainly not violently so, but that I was just another gun crank badly in need of sympathy and help.

Although he was not a shooter, he quickly grasped my problem and gave me his sincere interest and expert help. Across from the door of his office, about fifty yards away, was a brick wall, and on it was a "No Trespassing" sign in which the letter "O" was of suitable size to serve as a bullseye. I stood in the doorway, in shooting position, aiming the handgun at the bottom of that letter "O", while friend oculist dressed up my face with one of those trick eye-glass frames. He proceeded to put lenses of different power into them, while I advised him whether the one just put in was better or worse than the one it had replaced.

By the old scheme of trial and error, but under very practical conditions, it was possible to select the best set of lenses for my eyes. The formula indicated by these test lenses was duplicated in a pair of shooting glasses which have been a constant source of pleasure and comfort to me ever since. Their point of sharp focus is the *front* sight, but they give good definition to the rear sight and an acceptable picture of the bullseye.

I believe that anyone in this handgun game who is having trouble with his sight picture because of changing eyesight should pack his favorite gun along with him on the next visit to his oculist, and do just what I did: be fitted with shooting glasses under actual shooting conditions. It might mean improved scores.

If it should happen that there is not a "No Trespassing" sign conveniently near, the picture of you in the doorway-firing-line will probably clear the neighborhood and you will find something just as serviceable to aim at. ◆◆◆

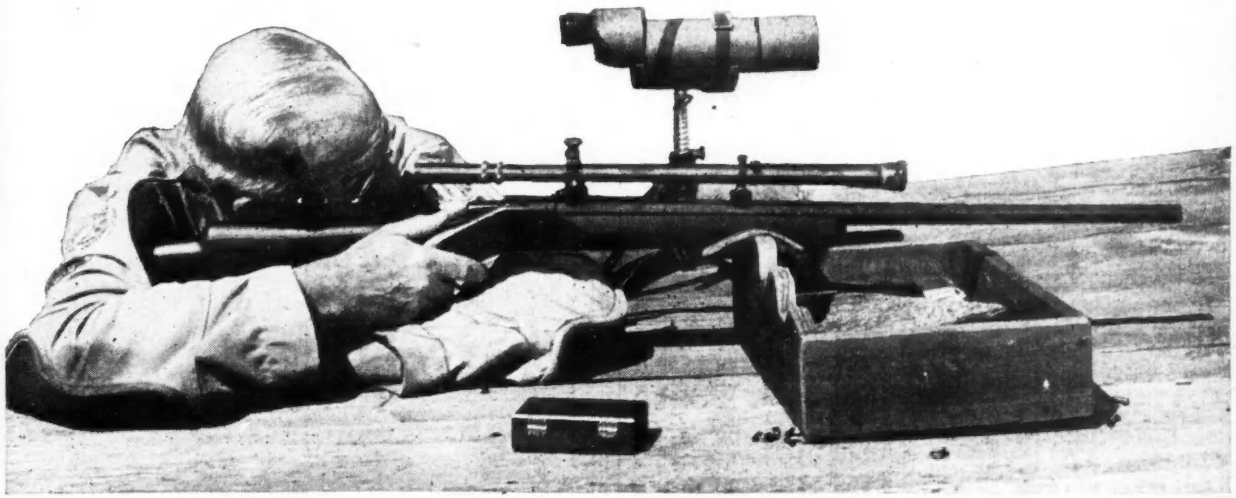


Ye're danged right, Warden . . . I am huntin' . . . for my hired man . . . an' my wife!

BENCH-REST TECHNIQUE

PART I

By CLARK, HOLMES, and WHELEN



IT WOULD SEEM AT FIRST THOUGHT that the use of the machine rest must be the best method of eliminating the human error from study of the rifle. But contrary to rather wide belief only three forms of machine rest have proved at all satisfactory, and these do not have the wide adaptability that is needed. There is the Pope and Hubalek type which is suitable only for accuracy and ammunition testing with .22 rimfire and other low power, heavy-barrelled, single-shot rifles, the fore-end of the stock being removed from the barrel when placing the rifle in the rest. Then there is the Mann "V" rest for testing ammunition and systems of rifling, but not an assembled rifle. Finally there is the Woodworth cradle, used in the Mann "V" rest, which holds the Springfield 1903 rifle in its stock. So far this cradle has been made for that one rifle alone at a cost of construction and installation that is prohibitive. None of these give a true indication of how a complete rifle in its stock will shoot in the hands of a rifleman, nor does the sight adjustment obtained with them give any indication of what adjustment will be needed when the rifle is held by the shooter.

So far the use of the bench rest has been the one and best method of testing a rifle. But it seems to me that the technique of construction and use of the bench rest has never been developed as it could be. After reviewing all previous bench-rest shooting, it is quite apparent that considerable human error has often existed in it. Shooters have approached the goal of eliminating the human error from the study of the rifle only after years and years of work, and not all of them have told how they have done so. I have described my own technique elsewhere*, but I am quite sure it is far from free of personal error, which often has amounted to as much as a half minute-of-angle. I have also seen brief designs of bench rests which, according to my own experience, must have given still larger errors.

But recently it has been very encouraging to note the fine results obtained by James I. Davis, Samuel Clark, Jr., and Morgan Holmes as set down in the January, February, and March 1947 issues of THE AMERICAN RIFLEMAN. Also, I have been impressed by the very excellent results obtained for some years by Al Barr. It occurred to me, therefore, that if we could learn something of the techniques of these four masters we would be getting somewhere.

In presenting their views, perhaps I may be permitted to make a few comments and explanations.

I agree entirely with Mr. Clark that the form of bench rest is very important. My own rest is almost a duplicate of his, except that I use a small weighted box, cut with three heights of notches, and soft rubber padding for a fore-end rest as shown in the photograph above. This box can be pushed anywhere on the bench top for length and side placement. In bench-rest shooting I hold the butt of the rifle with its toe between the third and little fingers; the little finger is crowded more or less between the toe and the bench top to obtain exact elevation. I think Mr. Clark's design of the little butt-stock rest or "steady-er" is extremely valuable. I shall try it before long in the hopes that it will eliminate the pulsations which have been my most serious trouble. Particularly have I found that the padded fore-end rest results in a sight adjustment that for me agrees exactly with that required for shooting standing, sitting, and prone-without-sling, which I think is a very desirable feature. A portable bench rest, similar in design to Mr. Clark's but with three folding legs made of "two-by-fours" hinged to the under-surface of the bench with strong strap hinges, is easily constructed and should be nearly as useful.

* Small Arms Design and Ballistics, Vol. II, Ballistics.

Mr. Holmes calls attention to the importance of uniform absorption of recoil. About four years ago it became very clear to me that this was most important, and since then I have studied it constantly. My thought right now is that if one assumes the position which Mr. Clark advises (and which I also use), the position will soon become so standardized and comfortable that the least variation will give discomfort that is at once apparent, thus making for uniformity of tension and taking up of recoil. Such uniformity is hardly possible when using the gun sling in the prone position because the "lay" of the ground always differs from firing point to firing point. Between the firing point on my own range and that of my rifle club, I have noted a difference in group sizes averaging one and one-half minutes-of-angle. This difference in size of groups fired on the two ranges has persisted now for four years, and I can attribute it to nothing except the way in which the recoil is absorbed on the two firing points.

The position shown in the photograph on the opposite page is not adaptable to rifles of heavier recoil than the .30-'06. For heavier recoil I think one should assume the position shown in Mr. Holmes' photograph on page 30.

—TOWNSEND WHELEN.

Technique of Samuel Clark, Jr.

It is possible for anyone in a few hours work to construct a permanent bench rest which is much superior in rigidity, comfort, and holding qualities to the portable rests often illustrated. The drawing on this page shows its construction quite clearly, and its dimensions as well. Specifications for the materials used in constructing this rest, which can be sawed at the mill or lumber yard, are listed below the drawing.

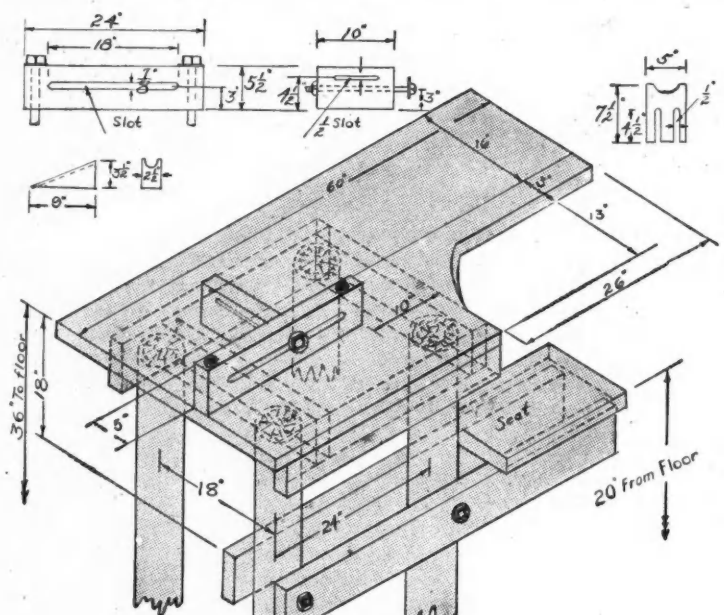
The posts should be planted at least a foot and a half in the ground, first being sawed to the right length so that the top of the bench will be about thirty-six inches above the ground or floor.

The most important single detail in the construction lies in the shaping and padding of the recess in the adjustable block in which the fore-end of the rifle is to rest while firing. The bottom and sides of this recess should conform to a cross section of the fore-end of the rifle to be used, but should not be drawn in at the top if the fore-end is narrower there than across the sides. This recess should be made larger than the fore-end of the rifle to be used, according to the thickness of the padding used on it and the rifle.

When the block is completed, with the recess cut in it, carefully pad the top surface of the recess with about a three-sixteenth inch thickness of felt, and tack the felt securely in place on the vertical sides of the block with carpet tacks. Now cut a six-inch pad of the same felt, equal in thickness to the pad on the box, and tape it with adhesive tape to the fore-end of the rifle as shown in the illustration on the next page of my Wasp rifle.

When completed, the padded fore-end should fit in the padded recess of the block with a good push, allowing the rifle to be held practically without movement while aiming and squeezing but letting the rifle recoil slightly upon firing. The point on the fore-end at which the rifle is rested is not of the greatest importance but should be near the forward tip and exactly the same from shot to shot.

Only two accessories are needed to use with the rest. One is a wedge for the bottom edge of the buttstock to rest in while firing. In making this wedge, follow the approximate dimensions in the sketch. Groove the upper surface with a half-round rasp to fit the bottom edge of the buttstock and pad the groove with felt. Holding with this wedge is much easier than resting the buttstock in the angle between the thumb and first finger of the left hand. In use, the larger end of the wedge is faced toward the target. The buttstock rests



Here is a drawing of the bench rest used by Samuel Clark, Jr. The component parts needed to build it can be obtained, at a very moderate cost, from the local lumber yard and hardware dealer. These parts are:

Lumber:

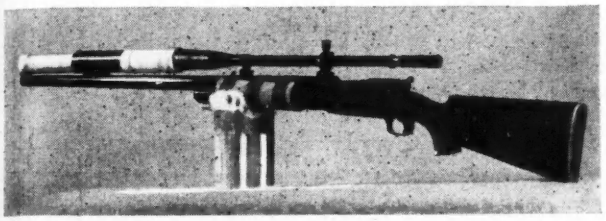
- Four dry cedar posts for supports (7 feet x 6 inches)
- Two white pine cross pieces (2 x 6 x 24 inches)
- Two white pine cross pieces (2 x 6 x 30 inches)
- Two white pine boards for top (2 x 16 x 60 inches)
- Two white pine supports for seat (2 x 6 x 50 inches)
- One white pine board for seat (2 x 12 x 18 inches)
- One white pine board for fore-end rest (2 x 5 x 7½ inches)
- One piece of hardwood (2 x 5½ x 10 inches)
- One piece of hardwood (2 x 5½ x 24 inches)

Bolts and nuts:

- Eight (8½ x ⅝ inches)
- One (¾ x 14 inches)
- Two (⅝ x 8 inches)
- Two (¾ x 11 inches)
- Two (⅜ x 4½ inches) plus two wing nuts
- Two washers for each bolt
- Twenty-four 5-inch spikes

in the grooved upper edge and, by moving the wedge about on the table, the crosshairs can be brought to rest exactly in the center of the target. There is no strain in any direction, the cheek rests lightly against the stock, the trigger squeeze is commenced, and a fine hold is almost a certainty.

Soon after I became interested in high-speed rifles and began testing them by shooting long strings from bench rest, I found that fine work was made very difficult or impossible by the mirage which rose off the heated barrel. To dispel the



Padded forearm of Samuel Clark's rifle fits into padded recess of bench rest. This arrangement holds gun firmly but allows it to recoil upon firing

mirage, my friend Vaughn Cail and I would take turns waving a dustpan vigorously alongside of the barrel while the other took his turn at the bench rest. However, I soon tired of this occupation and made a cardboard tube to fit over the telescope that extended to the muzzle of the rifle, thus eliminating this nuisance.

When another friend saw it, he improved on the idea by making the tube adaptable to any length of barrel. This valuable item is shown in place on the scope of my Wasp rifle. It simply consists of two thick cardboard tubes of convenient length, one of which will just fit inside the other. The larger of the two tubes, slightly larger than the forward end of the telescope, is made to fit the scope tightly by adding strips of adhesive tape to it lengthwise. In use, the smaller or forward tube may be pushed in or out of the larger one to conform exactly to the length of the barrel. A properly shaped piece of light wood about two inches long, glued to the underside of the tube, rests on the barrel and supports the tube.

While certain types of stocks make shooting from bench rest much easier than others, one along the lines of the Winchester-Marksman stock, as shown in the illustration above, can hardly be excelled for this work. A straight buttstock with little drop is desirable, but especially does the shape of the fore-end lend itself to easy and accurate holding from the rest. The wide bottom of this fore-end prevents tilting and, aided by friction between the felt pads, holds the rifle solidly so that the crosshairs show practically no movement when a 20-power scope is centered on a one-half inch square aiming point at 100 yards.

When testing a single-shot rifle with two-piece stock in the bench rest, I find it handy to remove the slim tapered forestock and replace it with a homemade forestock which duplicates the dimensions of the Winchester-Marksman fore-end. This is not absolutely essential, however, as a block may be made with a recess to fit any forearm.

With the type of rest I have described, it is possible for anyone who is capable of squeezing the trigger and holding the rifle without undue strain to shoot groups averaging a minute-of-angle or less, provided his rifle and ammunition is capable of such accuracy.—SAMUEL CLARK, JR.

Technique of Morgan G. Holmes

Bench rests and the technique of using them can, in my opinion, be divided into two classes. Which of the two a shooter should use depends on the results he wishes to get. For instance, if good groups from a given combination of rifle and ammunition are wanted, regardless of how practical or how appliable they may be to field shooting, I would use a clamp secured close to the muzzle of the barrel and support the stock with both hands, as in the picture below. This is the easiest rest to use, much less experience is needed to acquire the skill necessary for shooting tight groups with it, and it answers all the requirements for rest shooting as a competitive sport that, to my knowledge, are available. However, it is not always possible to repeat the results obtained on this rest when shooting the same rifle and ammunition in the field.

To be of general service a bench rest has to be reliable in its performance. In some cases the muzzle clamp type of rest will produce results which can be duplicated in the field. But from the experience I have had with various calibers, from the .405 to the .22 Long Rifle, and rifles of every weight, from the sixteen-pound bull gun to the light sporter, I find better practical accuracy is obtained with the rest I am using at present. (See photo on page 30.) I can sight in a rifle on this rest and maintain the same center of impact when I shoot from the prone position, which is something I cannot accomplish with a rest that supports the forward end of the barrel. The use of a muzzle clamp is an advantage over placing the barrel directly on the support of the rest because the point of support to the barrel never varies.

There are two things over which even the most skilled rifleman never has complete control. One is the pulsations from the heart, blood vessels, and breathing which disturb a shooter while he is aiming from the bench rest. I have soft sponge rubber on top of the forward support on my rest and have acquired the experience necessary to steady the rifle by touching the barrel against it. To lay the rifle on this rubber support would make handling the gun easier, but it would also increase the possibility of setting up a pressure on the stock or barrel that would not be present when shooting in the field without a rest. It is surprising how little pressure is needed at the fore-end to quiet the sights and make possible a

When seeking acute accuracy from a rifle and ammunition, regardless of the practical application of results, Morgan Holmes uses a muzzle clamp on the gun barrel and holds the stock with both hands, as shown here

perfect let-off. This pressure should be so light that a slight variation of it from shot to shot will not affect the rifle's normal behavior. All things considered, this is the best method of obtaining practical results I have found, particularly if the rifle is expected to duplicate them in the hands of an expert rifleman.

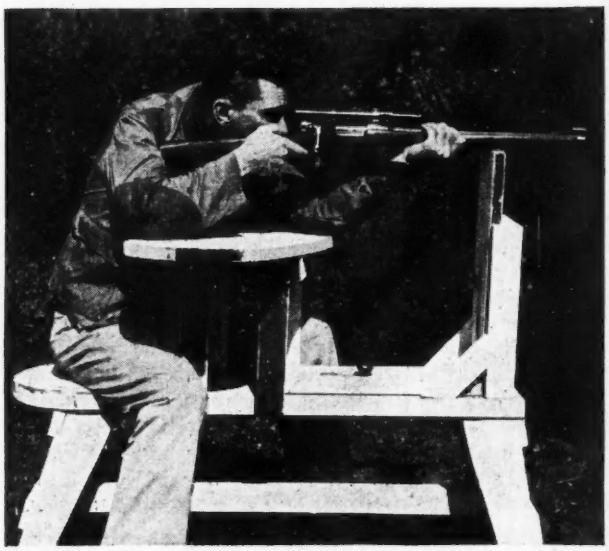
The second and, to me, by far the most uncontrollable factor in shooting is the absorption of recoil. It is a constant source of worry to riflemen whenever a gun is fired from the shoulder or from a bench or machine rest. It remains with us regardless of what we do, however we shoot, or what we shoot, and is never under complete control. To intentionally back up recoil exactly the same for any two shots is, I believe, impossible for even the finest rifleman. Unquestionably he comes closer to it than the novice, but he has never been and never will be able to reach perfection, unless some method is found to get the bullet out of the barrel before recoil can upset the aimed position of the rifle—this is not likely to happen in the next day or two. Many of the best riflemen have acquired great skill in this respect by firing thousands of rounds of ammunition, thereby becoming uncomfortable unless their usual positions are repeated, which of course helps to maintain a more uniform support to the recoil.

This point is getting more critical each year our rifles become more accurate. A skilled bench shot can shoot one-inch groups pretty consistently with some of the best varmint calibers, but how do we know that the same string of shots would not be in one hole if recoil were handled without the slightest variation.

In this regard it might be well to remember that any barrel is in motion when the bullet emerges at the muzzle. The principle involved is relative to swinging a rifle across a stationary target and attempting to squeeze the trigger so the moving bullet will emerge from the moving barrel and go through the hole made in the target by a previous shot. The principle is similar but the function is different. Trigger timing has nothing to do with recoil. But the principle of the barrel moving across the target while the bullet is being pushed through it, and the necessity of the bullet emerging from the moving barrel at a point that will cause it to follow the previous shot is similar. In any kind of rifle shooting when the rifle is held as stationary as possible, we must watch recoil timing instead of trigger timing. It is this recoil or the varying control of it that gives a different center of impact in the different positions of a four-position match, and is in my opinion the hardest thing to control at the bench.

Heavy varmint rifles have very little recoil but, comparatively, it is of just as much importance as heavy recoil in a light rifle. We would expect one-inch groups or better with the gun of light recoil and perhaps two-inch groups with the light sporter. I have gone to the bench many times with a super-accurate varmint rifle and twenty cartridges loaded with the same components at the same time. Perhaps the first ten shots would go into one-half to three-quarter inch groups. The other ten cartridges may not group better than one or one and one-quarter inches. I have satisfied myself that my aim, squeeze, and follow-through did not vary enough to cause the difference in group size. However, since I can only put one target up at a time, I had to change my position between the groups. I believe the difference in the size of the groups is simply the result of happening to get into a position for the first string from which I could control the recoil better.

To hold the crosshairs on a tack at 100 yards, from the bench, long enough to release the trigger is simple compared to approaching such perfection in recoil absorption. On the average machine rest of Pope or similar design, the reticule never shows any perceptible error in relation to the target. We may, therefore, assume that the rifle is aimed perfectly for any number of shots. Yet, when using a cartridge as light as the .22 Long Rifle, I can get tighter groups from the bench rest with a visible error in my holding of one-half inch at 100 yards. In other words, the perfectly held rifle in the machine rest will usually shoot larger groups than the same rifle will when there is one-half inch error in aim at the bench rest. The reason for this, of course, is in the way the recoil is taken up. I can definitely absorb recoil more uniformly on the bench than I can on the machine rest—hence the smaller



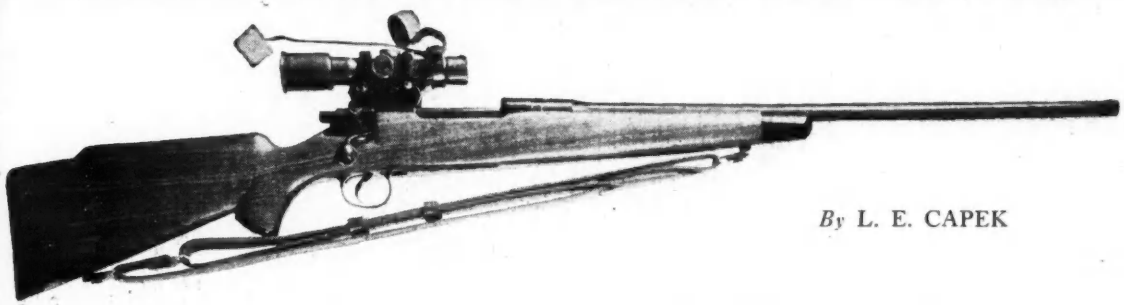
This is the position Holmes favors for practical bench rest shooting. In it the gun barrel is merely touched against the fore-end rest to quiet vibrations. It is particularly adapted to rifles with heavy recoil

grouping. Only by giving every consideration to recoil can we expect any rifle and its ammunition to achieve the accuracy that has been built into it.

In bench-rest technique the most important point of all is to do everything from shot to shot as uniformly as possible. This includes positioning the butt on the shoulder, gripping the gun with the hands, positioning the elbows, and, if a sling is used, not having it too tight, and keeping the pull even. A good telescope of high power and large objective lens is a decided help in aiming. The crosshairs should be fine enough to quarter a one-half inch white paster at 100 yards. My own scope is 16 power and has a one and one-quarter inch objective. Do not let the group form on the white square. If you do, its appearance will be changed by the bullet holes, which may cause you to hold away from the original aiming point.

A bench rest is a decided help in determining to a certain degree the accuracy of a rifle and its ammunition. But I do not consider it or the machine rest, which is manually controlled, capable of getting all the accuracy there is in any combination, because of the human element involved.—MORGAN HOLMES. (*To be continued*) ◆ ◆ ◆

AN M-17 AND A K-43



By L. E. CAPEK

IT IS INTERESTING how gun hobbyists can sometimes concoct an effective firearm from wartime leftovers. This seems to prove the old adage that true love always finds a way. For the past few years I have felt the urge to add a good long-range sheep rifle to my collection. To define the words "long-range sheep rifle"—a high-velocity hunting arm with a telescopic sight, adjustable within reasonable accuracy for all ranges up to at least 800 yards. I gave much thought to the many possible actions and scope combinations that would give me this. After checking many actions and their costs, I decided on an Enfield M1917 for its strength, caliber, and availability at that time.

About six months ago a souvenir K-43 German rifle scope was presented to me. This sight, which for lack of a better name I call the K-43 (this identification is stamped on one side), is a German military rifle scope.* By comparing it with our standard American scopes it seems to be approximately 3¼ power and has a field of view slightly less than that of the Lyman Alaskan. The lenses are not coated but give a bright and clear image even on dull days. The reticule is a pointed post with an interrupted horizontal bar of the same width as the upright. Objects are in good focus from about fifty feet, and the definition is perfect from twenty-five yards to infinity. The scope itself is adjustable for windage by a protected dial on the top and for elevation by a dial on the right side, calibrated in meters. It is six inches long and the diameter at each end is one and three-sixteenth inches. From what information came with the scope it seemed to do a good job "over there" and was made by the Zeiss Company to German military specifications. From close examination I suspect it is weather-proofed, as the fittings are insulated and very tight. The outside of the tube is rough but not very many specifications for military tools called for polished surfaces.

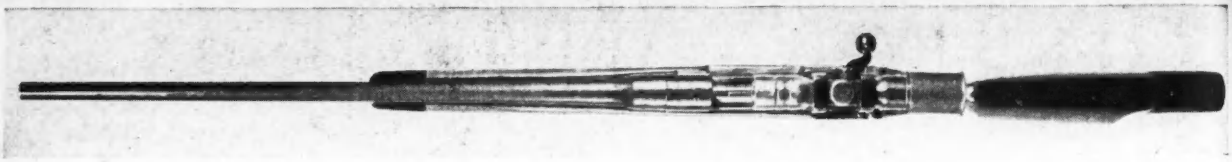
I wasn't too enthused about using the scope at the time it was acquired since it had no mount, and as far as I knew there were no mounts available for it on an American-made rifle. Since it would cost a considerable amount of cash to have one made up, the scope went into my miscellaneous drawer.

When my M-17 was received from the arsenal I found it was in very good condition. While giving the rifle the once over, a way of mounting the discarded K-43 scope on the action came to me. I was sure that the big mass of steel on the rear end of the M-17 receiver could be brought into use as the mount for the K-43. Thereupon I went to the drawing board and started designing the possible applications to which this rear sight base could be used as a mount base for the German scope. I had carefully measured the scope on the round diameters and on the square diameters to determine how clamps could be made. However, when I determined the eye relief was approximately three inches, I found no alternative but to clamp over the squared portion of the scope, with the clamps mounted directly over the M-17 rear sight base. It did not take very long to work out the combination.

After putting the entire idea and its dimensions on paper, I started milling it out of steel. To start with, the barrel of the M-17 was shortened to twenty-four inches and the muzzle properly crowned and lapped. The receiver was then set up in a mill and cuts made which permitted a squared oblong piece of half-inch cold-rolled steel to be snugly fitted parallel to all center lines of the bore and just high enough from the action to permit setting the scope on it without lens interference. It took a little careful fitting to make sure this half-inch steel block would nest down in the section between the ears of the old sight. Not only was metal removed from below, where the old sight leaf was, but from the inside of both sides as well. When the block was worked to a drive fit into the milled-out sight base, the points of the ears were made flat to conform to the top of the block. An attempt was also made to shape this block to the contour of the mounting for the sake of at least some semblance to smooth appearance. It was then necessary to mill out two U-clamps and a base from cold-rolled steel. The clamps were dimensioned so that they were a sliding fit over the squared part of the scope and the block. When the clamps were slid over the scope, it was necessary to relieve the right-hand side of the rear clamp so that the calibrations on the scope elevation adjustment would not be hidden from view.

In fitting the scope and clamps to the base block, the recesses for the clamps in the base were made .010 inch smaller across the diameter to permit some compression of the clamps on the scope. Before the clamp mounting holes were drilled and tapped into the base, the scope and the clamps were firmly pressed down on the base by means of a large machinist's vise. While in this fixture, so to speak, the holes and counterbores for the screw heads were drilled into the clamps and their corresponding holes in the base were also drilled and tapped.

** The correct designation is ZF4, meaning Zielfernrohr 4 power. It was standard equipment on the German K-43 semiautomatic.*



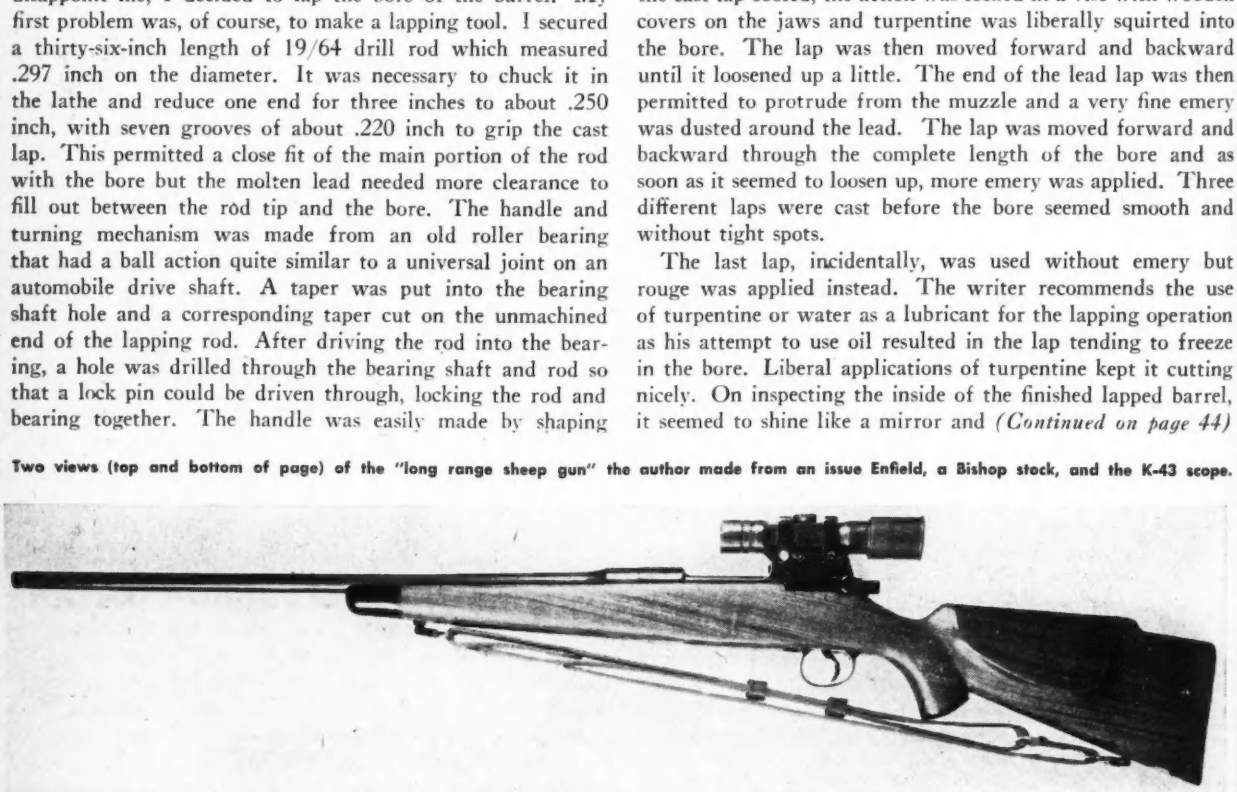
After the screws were inserted and tightened, there was absolutely no movement between the scope and the base, regardless of how much pull and push I exerted on them. The base and clamp assembly was then dowelled into the milled-out section of the M-17 sight base on the receiver. From the pictures you will note that the rear sight leaf hinge pin was put to use as the rear dowel in fixing the scope, clamp, and block assembly between the ears of the old sight. A screw was also added on each side of the ears to hold the base. These screws, however, left some doubt as to the stability of the assembly and another tight fitting pin was driven through the ears and mount next to the screws. Later it was proven that this had apparently done the trick as no matter how roughly the rifle was treated, the zero was held. One might even say that some of the abundant strength of this mount could have been sacrificed in an attempt to improve the lines and appearance, but my first and last requirement was dependability. Besides, the actual rifle doesn't look bad at all.

Up to this time everything went well, but there was still more to be done. I removed the scope base and clamps, and proceeded to work further on the action and barrel. To make sure the accuracy of this "long-range sheep gun" would not disappoint me, I decided to lap the bore of the barrel. My first problem was, of course, to make a lapping tool. I secured a thirty-six-inch length of 19/64 drill rod which measured .297 inch on the diameter. It was necessary to chuck it in the lathe and reduce one end for three inches to about .250 inch, with seven grooves of about .220 inch to grip the cast lap. This permitted a close fit of the main portion of the rod with the bore but the molten lead needed more clearance to fill out between the rod tip and the bore. The handle and turning mechanism was made from an old roller bearing that had a ball action quite similar to a universal joint on an automobile drive shaft. A taper was put into the bearing shaft hole and a corresponding taper cut on the unmachined end of the lapping rod. After driving the rod into the bearing, a hole was drilled through the bearing shaft and rod so that a lock pin could be driven through, locking the rod and bearing together. The handle was easily made by shaping two pieces of half-inch cold-rolled steel into handles, cutting a recess half way into each piece for the bearing, and then bolting the two halves of the handle together, locking the bearing tightly inside.

This contraption worked very well as the rod rotated in the bearing without effort, and the slight universal action of the bearing permitted little or no bend to the rod, regardless of how the handle was twisted during the lapping operation. The next step was to wrap a piece of cotton string on the end of the rod that was to hold the lap. This was placed in the last groove from the end and was meant to prevent the molten lead from going farther down the bore. It also had a tendency to locate the rod in the center of the bore, giving more assurance of a perfect cast. The barrel and action was completely stripped of parts and wiped free of oil and grease. After heating the end of the barrel slightly, the lap end of the rod was also heated and then inserted into the bore from the chamber and pushed up to the muzzle. The barrel was then placed in an upright position and molten lead poured into the barrel. Care was exercised not to fill the bore to the top as this would have caused the lead to cast a mushroom on the end of the lap, necessitating a lot of filing to remove it. After the cast lap cooled, the action was locked in a vise with wooden covers on the jaws and turpentine was liberally squirted into the bore. The lap was then moved forward and backward until it loosened up a little. The end of the lead lap was then permitted to protrude from the muzzle and a very fine emery was dusted around the lead. The lap was moved forward and backward through the complete length of the bore and as soon as it seemed to loosen up, more emery was applied. Three different laps were cast before the bore seemed smooth and without tight spots.

The last lap, incidentally, was used without emery but rouge was applied instead. The writer recommends the use of turpentine or water as a lubricant for the lapping operation as his attempt to use oil resulted in the lap tending to freeze in the bore. Liberal applications of turpentine kept it cutting nicely. On inspecting the inside of the finished lapped barrel, it seemed to shine like a mirror and *(Continued on page 44)*

Two views (top and bottom of page) of the "long range sheep gun" the author made from an issue Enfield, a Bishop stock, and the K-43 scope.



RUSSIANS from SPRINGFIELD

By H. A. BRAND

Engraved Smith & Wesson American chambered for Russian cartridge. This example was a gift of the Mexican Ambassador to the dictator Gomez of Venezuela

THE FAMED SMITH & WESSON "RUSSIAN" . . . SIDEARM OF PRINCES AND SHERIFFS, AND THE FIRST SUCCESSFUL TARGET SHOOTER'S REVOLVER

WHEN BILL CODY SHOT some buffaloes with his Smith & Wesson American Model Revolver, as an oft-repeated legend tells us, he created a trend in titles that has persisted to this day. His guest at the time of the hunt was the Grand Duke of all the Russias, who was so impressed with this performance that he carried home glowing reports to his brother, the Czar. The S.&.W. American was a fine weapon in its day (and still is for that matter). It shoots a large caliber cartridge (.44 Smith & Wesson American), it has a long eight-inch barrel, automatic ejection, and a perfect balance. Produced in 1870, it was the first cartridge revolver adopted by the United States Army. In its day it was well ahead of any competition. Fortunate was the man who could boast the ownership of one of the civilian models.

The Grand Duke was sold on this revolver and became a super salesman in its behalf. Upon his return, Smith & Wesson received word from St. Petersburg that the Czar would place an order for about a quarter of a million revolvers. But the design was to be changed. The S.&W. American underwent several modifications: the barrel was shortened, the grip was rounded and a hump placed on it, and a spur was added to the trigger guard. The top rib of the barrel was inscribed with Russian characters and the famous Russian Model was created. The cartridge (.44 Smith & Wesson Russian) was an improved, more powerful version of the American. It rapidly became one of the popular revolver cartridges of its day.

During the fulfilment of the Russian contract there were gay times in Springfield. The Czar had sent quite a delegation of titled Russians to place the order, present their plans, and watch initial progress. Their strange and bright-colored uniforms, their old-world culture, their courteous and polished manners were quite in contrast with New England modes, but they were well received, particularly the younger members. And why not. The entire city was aware of the splendid contract being awarded to one of the local industries. It was not all frolic. Those Russians had ideas. They knew what they wanted in a weapon and in ammunition for that weapon. The splendid .44 Smith & Wesson Russian cartridge is their creation.

Smith & Wesson American Model with the words "Russian Model" on the top rib. This gun was evidently made for use South of the Border

Strangely enough, the true Russian model is little known in this country. I have heard of it but have never seen one. This is the true Russian Model, with Russian lettering on the rib. Any information regarding this weapon will, I know, be welcomed by all Smith & Wesson collectors.

The Russian Model with English lettering on the top rib was offered for civilian distribution. So famous did it become that later models and even the earlier American Model became "Russian Models" when they were chambered for the .44 Smith & Wesson Russian cartridge.

In 1879 the Russian story becomes complicated. In that year Smith & Wesson developed their Model Number 3 single-action target revolver. When it was chambered for the .32-44, .38-40, .38-44, or .44 Winchester cartridges it retained its modest title of Model Number 3. But when it was chambered for the .44 Smith & Wesson Russian cartridge, it became the Russian Model—Americanized, streamlined, and handsome. The grips were rounded as before, but the European hump was left off, the spur was eliminated from the trigger guard, and the military lanyard ring was omitted.

Up to this time, Smith & Wesson had confined their efforts to single-action revolvers, but in 1885 they produced a double-action model, dubbed by collectors and shooters as the Sheriff's or the Navy Model. In appearance, it resembles the Model Number 3 with the exception of the cylinder, trigger, and trigger guard. It has an exceedingly easy double-action pull and a very short hammer drop, making it comparatively simple for double-action shooting devotees to achieve accuracy in the shortest time. This model could be had in two different calibers. When it was chambered for the .44 Winchester cartridge, it was called the Frontier Model. When it was chambered for the .44 Smith

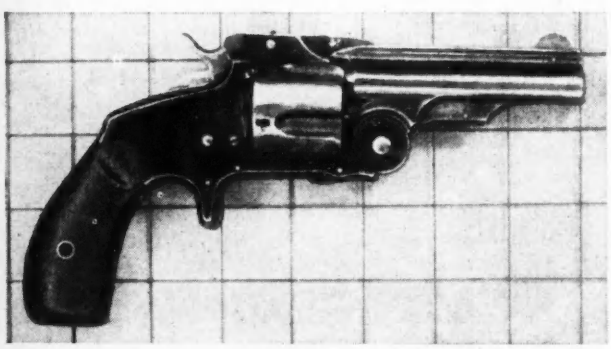
& Wesson Russian cartridge, it became another "Russian" revolver.

So the name Russian was carried on through several succeeding and distinctly different types. Even here it did not end. The old American Model of 1869—the personal sidearm of Buffalo Bill on his hunts, and of General Custer at the Battle of Little Big Horn—was chambered for the .44 Smith & Wesson Russian cartridge and given the exalted title of Russian Model by stamping the name on the top rib of the barrel. Two specimens (pictured on page 33) were made for service south of the border. The engraved one was presented by the Ambassador of Mexico to the dictator Gomez of Venezuela. It is chambered for the .44 Smith & Wesson American cartridge. The other, bearing a much higher serial number, is chambered for the .44 Smith & Wesson Russian cartridge and is stamped Russian Model on the rib. The few other specimens of this American Russian Model that I have seen all bear much higher serial numbers than the ones chambered for the .44 Smith & Wesson American cartridge. We may naturally assume that these American Russians were made contemporary with the later Russian Models. Can it be possible that they were made up for Latin America?

So, we have five different and distinct Russians—the American with Russian Model stamped on the rib, the Russian with Russian lettering on the rib, the Russian with English inscription on the rib, the Model Number 3 single-action target, chambered for the .44 Smith & Wesson Russian cartridge, and the Frontier Double-Action, chambered for the .44 S.&W. Russian cartridge.

Collectors and shooters have had many friendly arguments regarding the true Russian Model. Apparently the name Russian cannot be applied alone to any of these five distinct patterns, but must be accompanied by sub-titles such as American Russian, Double Action Russian or Model Number 3 Russian. They are all Russians. This is evidenced by stampings upon the revolvers or descriptions in Smith & Wesson catalogues.

Inasmuch as a distinctly different type of revolver was manufactured by Smith & Wesson on a contract from Russia and as it succeeded the American model and preceded the civilian model, the Model Number 3 single-action, and the Double-Action Model, I believe it is safe to assume that the *true* Russian Model, and the only one that can have this single title applied to it, is the revolver made up on contract for the Russian Government and which bears the Russian lettering on the rib.



The last of the Smith & Wesson Russians. This Model Number 1 in .38 caliber, released in 1876, is known to collectors as the "little Russian"

S.&W. Russian model with English lettering. This was the civilian product

"Model Number 3" in .38-44 caliber. Note absence of spur on trigger guard

S.&W. double action, in .44 Russian caliber. It was also called Russian

Same gun in .44 Winchester caliber was known as the S.&W. Frontier Model

Smith & Wesson revolvers which played a part in the "Russian story." The lower three are from a 1899 S.&W. catalog

This would seem to sum up the various Russian Models so far as the classifications of the Smith & Wesson company are concerned, but it does not so far as collectors are concerned. They have added another member to this illustrious family—a minor member but nevertheless an important one.

In 1876 Smith & Wesson produced their first revolver shooting a .38 caliber cartridge. They created a cartridge for it, too, the .38 Smith & Wesson that has been and still is one of the most popular cartridges in the world. Smith & Wesson gave this new creation the modest title of First Model .38 Single Action. As it was evidently patterned from the larger Russian Model, with many similarities such as the spring housing beneath the barrel, the square ejecting rod, and the general appearance, collectors have dubbed it the Little Russian. I believe collectors are deserving of this honor. I have never seen this name applied in any Smith & Wesson literature. I have heard it referred to as such, though, during the many and interesting conversations I have had with collectors. It seems a valid name for the model. ♦ ♦ ♦

SPRINGFIELD RIFLES
...a chapter from HATCHER'S NOTEBOOK*

WITH SPRINGFIELDS AGAIN ON THE SHOOTER'S MARKET (SEE PAGE 41), YOU'LL BE WANTING THESE FACTS AND FIGURES

In the Spanish-American War of 1898, the U. S. forces were armed with a conglomeration of weapons ranging in caliber from .45 down to .236. The Regular Army used the Krag-Jorgensen rifles and carbines, caliber .30, Models of 1892, 1896 and 1898. The Navy was armed with the Lee straight-pull rifle, in a caliber called 6 mm. U.S.N., which in inches came to .236. The militia and volunteers were armed with the old .45 caliber rifle, model of 1873, or any other military arm available.

Early in that war the Mauser rifles used by the Spaniards proved themselves to be formidable weapons, and gained a great reputation in the press, which caused our own weapons to be regarded critically.

When the war ended, our arms designers bestirred themselves, and the Chief of Ordnance gave oral authority for the preparation of the pilot model of a new rifle. This rifle used a rimless cartridge instead of the rimmed variety used in the old Krag; and the mechanism of the new rifle greatly resembled the typical Mauser action.

The pilot model was duly completed, and on August 25, 1900, it was forwarded to the War Department for examination. It had a thirty-inch barrel, and a rod bayonet instead of the knife bayonet used on the Krag.

After consideration of the new model, it was decided that it should be made with a shorter barrel to permit its use by the cavalry as well as by the infantry. Thus it was hoped to avoid the necessity for the production of a carbine for the mounted services. On April 7, 1902, an appropriation of $1700 was made for the manufacture of 100 experimental rifles. (Thirty years later a similar order was given for the production of 80 experimental Garands at $1000 each.)

These 100 rifles were duly manufactured, and were tested by a board convened at Springfield Armory on February 16, 1903. This board recommended that the rifle be made with a twenty-four inch barrel instead of twenty-six inches, and that the rod bayonet be shortened six inches; these changes were to enable all services to use the new arm. The gun had a ramp rear sight of the "claw-hammer" type. The bolt handle on the pilot model was straight, but in order to make it a better fit in the saddle scabbard of the mounted troops the board recommended the bent down shape so successfully used on the Springfield ever since.

On the recommendation of Brigadier General William Crozier, Chief of Ordnance, this new model was on June 19, 1903, approved as standard by the Secretary of War and designated as the U. S. Rifle, caliber .30, Model of 1903.

On June 20, 1903, orders were given to begin immediately the manufacture of the fixtures, dies, tools, gauges, etc., required for making 225 of these rifles per eight-hour day at Springfield Armory and 125 per eight-hour day at Rock Island Arsenal. The following month these instructions were changed to direct the manufacture of sufficient fixtures for the making of 400 rifles per day at Springfield Armory.

These fixtures, etc., were made with such rapidity that quantity production of the rifles was begun in November, 1904, and continued without interruption until after the close of World War I.

Various changes were made from time to time in the components of the rifle and the methods of manufacture, some of the more important of which were as follows:

During the fiscal year of 1904, the first year of manufacture, 30,503 rifles were made. These had the rod bayonet and claw-hammer rear sight. During this period the cocking piece and safety lock were redesigned so that the rifle might more satisfactorily meet the requirements imposed by the Infantry Drill Regulations of that time.

During the fiscal year of 1905, there were manufactured 43,905 rifles equipped with the rod bayonet. On January 11, 1905, work was suspended on the rod bayonet and its related parts, pending the proposed adoption of the knife bayonet. This was finally approved for adoption under the designation of Bayonet,

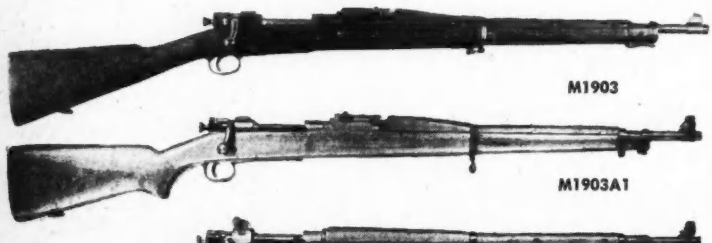
* Reprinted by permission of Military Service Publishing Company, Harrisburg, Pa., from *Hatcher's Notebook* by Major General Julian S. Hatcher, USA ret'd. For more information on Springfield rifles, see chapters 3, 9, and 17 of *Hatcher's Notebook*.

The standard U. S. service arm for 35 years, the Springfield has gained an almost fabulous reputation with the target shooter on the range, with the big-game hunter, and the soldier

Model of 1905. All rifles with rod bayonets were afterward altered for use with the knife bayonet.

In this period also, all work on the rear sight was suspended pending the outcome of trials of an improved sight, which was finally adopted. All rifles equipped with the old sight were changed so as to have the improved model.

The cartridge used with this gun was known as the Ball Cartridge, Caliber .30, Model of 1903. It had a rimless case and a 220-grain round-nosed full-metal-jacketed bullet, with a muzzle velocity of 2300 feet per second. In the meantime, experiments had been underway with a sharp pointed bullet of lighter weight and higher velocity. On October 15, this improved cartridge was approved by the Secretary of War, under the designation of Cartridge, Caliber .30, Model of 1906. It had the same case as the older one, but it had a 150 grain sharp pointed bullet driven at a muzzle velocity of 2700 feet per second.



The four "basic" Springfields

This sharp pointed bullet did not extend as far forward as did the older round nosed one, and it therefore became necessary to alter the design of the bullet seat in the barrel of the rifle to fit the changed bullet contour. During the months of November and December 1906 and January and February 1907, no rifles were assembled, owing to the necessity of rechambering the barrels to fit the changed ammunition. All rifles previously made were afterward brought back to the Armory and rechambered. This was done by taking out the barrels, cutting them off at the rear end for a distance of two threads of the breech screw (two-tenths of an inch), rethreading, putting back the barrels, and then reaming the chamber to the new size.

Up to the beginning of World War I, there had been manufactured at Springfield Armory a grand total of 606,924 rifles. In addition there had been manufactured nearly a third as many at Rock Island Arsenal, using tools, fixtures, gauges, etc., made at Springfield Armory and furnished to Rock Island.

The production of the M1903 Springfield rifle by fiscal years, from its adoption until the beginning of World War I (April 6, 1917), was as follows:

1904	30,503	1908	62,565
1905	43,905	1909	25,662
1906	97,603	1910	46,797
1907	102,116	1911	49,697
1912	35,179	1915	25,977
1913	38,070	1916	13,631
1914	26,545	1917	8,674

On February 20, 1918, at rifle No. 800,000, a major change was made in the heat treatment of the receiver and bolt, which resulted in a rifle of far greater strength than before.

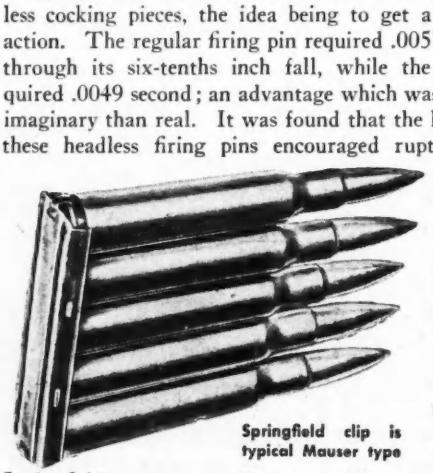
On May 11, 1918, with receiver No. 285,507, Rock Island Arsenal adopted an improved heat treatment for carbon steel M1903 receivers and bolts. Around August 1, 1918, at about receiver No. 319,921, that arsenal began using nickel steel for part of the production of receivers and bolts, but at the same time continued to make these parts of carbon steel also.

On April 1, 1927, with rifle No. 1,275,767, Springfield Armory changed the material in the bolt and receiver to nickel steel. The receivers in this series, while not quite as strong as the double-heat-treated ones which preceded them, still had ample strength, and the manufacture was simpler, as the complicated double heat treatment was avoided. In changing to nickel steel, another advantage of the double-heat-treated receivers and bolts was lost. This was the surface skin of very hard metal which gave a superb wearing surface, and made for a very smooth working action, without the "stickiness" of the relatively soft nickel steel. These nickel steel actions, are, however, highly satisfactory, everything considered. In the rare event of a failure, it occurs by a gradual stretching rather than by a sudden rupture.

Nickel steel receivers and bolts of rifles numbered in the 3,000,000 series made by the Remington Arms Company during World War II were surface carburized, making them quite hard on the outside and thus avoiding this stickiness.

During the years after World War I, it was the custom to make up each year several thousand rifles which were especially selected for use at the National Matches. In general these were the regular rifles, with star-gauged barrels, which simply means that the barrels were measured with a device called a star-gauge, so that any not within tolerances could be thrown out. In addition, the actions were carefully fitted for good trigger pull and the best possible functioning.

At one time the National Match rifles were made with headless cocking pieces, the idea being to get a faster firing pin action. The regular firing pin required .0057 second to travel through its six-tenths inch fall, while the headless pin required .0049 second; an advantage which was very likely more imaginary than real. It was found that the lessened inertia of these headless firing pins encouraged ruptured primers or primer blowbacks and they were declared dangerous by the Ordnance Department and discontinued.


Springfield clip is typical Mauser type

Several different kinds of pistol-grip stocks were tried on the National Match Springfields, and eventually one of these, which had undergone

extensive tests by the service boards, was adopted as standard in place of the old straight-grip stock. This new stock was the one submitted for test under the designation "Type C." Besides having a pistol grip, it omitted the finger grooves on the sides of the stock.

This was standardized on March 15, 1928, by Ordnance Committee Minute No. 6860, and the rifle so altered became known as the M1903 A1. A1, of course, stands in Army nomenclature for Alteration 1.

Alteration 2 is one which is not seen by the ordinary user of the M1903. It is a stripped barrel and action used inside a tank cannon for subcaliber practice; the only interest it has here is to let the reader know what the M1903 A2 is, and so fill the gap in the record.

Along about the 1930's, the Ordnance Department made up a few thousand Springfield rifles with sporting stocks and Lyman 48 rear sights for sale to the members of the National Rifle Association. This was known as the Rifle, Caliber .30, M1903, Style NRA.

Some heavy-barrelled target rifles were also made up on sporting type stocks. These were known as the Rifle, Caliber .30, M1903, Style T.

Occasionally a Springfield M1903 will be seen that has an ejection port in the left side of the receiver, and the words Mark I on the receiver ring. This is one of the rifles that was made up for use with the Pedersen Device during the latter part of World War I.

During the early 1930's, the rifle production at Springfield Armory was confined to replacement parts for use in overhaul, plus a few National Match rifles assembled in those years when the matches were held. By 1936, the Armory was being tooled up for the production of the Garand, and no Springfields were made that year, though a few were made after the tooling was completed.

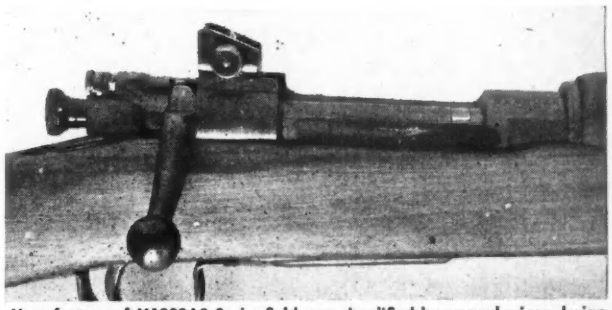
Ordnance records show that in each of the calendar years in which these rifles were made at Springfield, receivers produced at the beginning of January had serial numbers according to the list which follows:

1907	269,451	1922	1,239,641
1908	337,862	1923	1,252,387
1909	358,085	1924	1,261,487
1910	398,276	1925	1,267,101
1911	456,376	1926	1,270,301
1912	502,046	1927	1,274,765
1913	531,521	1928	1,285,266
1914	570,561	1929	1,305,301
1915	595,601	1930	1,338,406
1916	620,121	1931	1,369,761
1917	632,826	1932	1,404,026
1918	761,758	1933	1,425,934
1919	1,055,092	1934	1,441,812
1920	1,162,501	1935	1,491,532
1921	1,211,300		

In 1936, during the tooling up for the Garand, production of the Springfield was suspended, but it was resumed in a small way in 1937. The last receiver made was in the latter part of 1939, and it had the number 1,532,878.

In the latter part of 1941, the production of Springfields was again resumed at the plant of the Remington Arms Company, Ilion, N. Y., and the first rifle produced by them under this contract was 3,000,001. There are, therefore, no Springfields with numbers between 1,532,878, the last one made at Springfield Armory, and 3,000,001, the first one made on commercial contract during World War II.

At first, Remington made the ordinary M1903, with some options as to the form of stock and other details. They started manufacture with the same previous 3½ percent nickel steel used in the Springfields, afterward changing to a chrome-nickel-molybdenum steel with only .20 percent to .40 percent nickel, or on the average, about one tenth as much as had been used formerly, but with the same amount of chromium, that is, .20 percent to .40 percent, plus a small percentage of molybdenum.



Manufacture of M1903A3 Springfield was simplified by several minor design changes, most obvious of which is receiver peep sight to replace the leaf

In the effort to gain increased production, this firm immediately began studies and experiments on design changes to make manufacture simpler and easier. One change was to omit two of the four grooves used in rifling the barrel. As it was found that there was little difference in the performance of the two-grooved barrel and the four-grooved one, this was approved. There were a number of other changes; one which was a distinct improvement was the provision of a receiver peep sight.

On May 21, 1942, this simplified form of Springfield was approved for manufacture under the name of Rifle Caliber .30, Model of 1903 A3.

Other changes on the A3 model were:

Stock. Similar to that on the '03, except that the pistol grip is optional.

Barrel Guard. Replaced the handguard of the '03. Covers the space formerly occupied by the rear sight.

Upper Band Assembly. Made of sheet metal stampings. The bayonet stud band, which replaced the upper band of the '03, is shorter, solid on top, and has two bayonet mounting stud bands on the bottom. The stacking swivel and its band are stampings.

Lower Band and Lower Band Swivel. Made from sheet steel stampings.

Trigger Guard Magazine Assembly. This is the new nomenclature for the stamped, staked, and welded magazine, trigger guard, and floor plate.

Front Sight Group. Composed of a flat front sight pinned in a slot in a ring-type sight base which is keyed and pinned to the barrel near the muzzle. The front sight blades were furnished in five heights from 0.477 to 0.537 inches. In targeting the rifles the proper height of blade was used to make the gun shoot as nearly as possible in agreement with the rear sight graduations.

Butt Plate Group. Made of stampings.

Butt Swivel Group. Made of two plates welded together with the swivel between them.

Bolt Group. While it is basically the same as that for the 1903, some parts differ in design and will not interchange with the 1903.

Follower Group. Made from a stamping, but will interchange with the same part from the 1903.

Serial Numbers of the 1903 A3. Before the approval of these changes the Remington Arms Company had produced 348,085 M1903 Springfields with serial numbers between 3,000,001 and 3,348,085. They continued to produce rifles, but these were now of the M1903 A3 type lying within blocks of serial numbers assigned to this firm. These blocks of numbers, not all of which were used, however, are as follows:

3,348,086 to 3,607,999 inclusive.
3,708,000 to 4,707,999 inclusive
4,992,001 to 5,784,000 inclusive

Rifle Caliber .30 Model 1903 A4. On June 14, 1943, the 1903 rifle similar to the A3, but fitted with a telescope sight was approved as the Rifle Caliber .30, Model of 1903 A4. The sight used was the Weaver 330 3-power telescopic sight, slightly modified, and called by the Army the M73B1. Redfield Junior Mounts were used to attach the Weaver telescope sights to these sniper's rifles.

The rifle, caliber .30, M1903 A4, with Weaver telescopic sight and Redfield Junior mounts was made by the Remington Arms Company, with serial numbers in the blocks given below:

3,407,088 to 3,427,087 inclusive
4,992,001 to 4,997,045 inclusive
Z4,000,000 to Z4,002,920 inclusive

Springfields Made by L. C. Smith-Corona Typewriters, Inc. This firm was the only other besides Remington which produced Springfield Rifles during World War II. This plant started on the production of M1903 A3 rifles late in 1942, and actually began to turn out rifles in volume early in 1943. Blocks of numbers were assigned to this firm as follows:

3,608,000 to 3,707,999 inclusive
4,708,000 to 4,992,000 inclusive

Production at this plant stopped in February 1944, with rifle No. 4,845,831, after a total of 234,580 rifles had been produced. Again it will be noted that not all the numbers were actually used, as the total produced does not agree with the difference between the serial number of the first and the last rifle. This is because of the loss of numbered receivers through rejections, experimental tests, etc. ◆ ◆ ◆

Billy the Kid

(*Continued from page 23*)

for information as to Billy's whereabouts. Billy spoke to Maxwell and Garrett, recognizing his voice, fired. It was dark and Garrett could not have been sure whether The Kid was armed or not; would naturally have expected him to be armed. The Kid, like Wild Bill Hickok, was caught in a rare unguarded moment.

Garrett won fame by the killing, but not popularity. Billy's friends (and they were legion) claimed that Garrett, who was Billy's friend himself in the beginning, had turned against Billy for political advancement; and they claimed, too, that the killing itself was unfair—that Garrett was lucky not to have met The Kid in the open, armed, in equal combat.

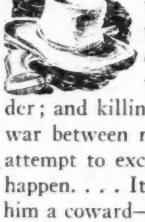
Be that as it may, Garrett killed Billy—but not his legend. That legend is as much alive today as though the Lincoln County War had ended yesterday.

What is it, I wonder, that makes a man so unforgettable? It was not his appearance. Billy was small; he stood five feet eight inches tall, weighed approximately 140 pounds. His front teeth protruded a little, so that he was not handsome . . . or was he?

How many men did he kill? I don't know. No one knows. Billy himself, according to men who were closest to him, placed the number at twenty-one. It seems to me not an unreasonable figure. He started young; and he lived in circumstances that made killing easy.

What guns did he use? I suppose that he, like shooters today, used any and all that came into his hands. Many collectors today own guns said to have belonged to Billy the Kid, and doubtless many of the claims are authentic. Billy was arrested several times; must have acquired different weapons after each arrest. This, alone, would account for a good many weapons. He was good with a rifle, good with revolvers. As a hunter, he used a shotgun with success on game. Guns were an integral and important part of his life.

I have heard it claimed that Billy used certain guns—guns variously described as "pistols of small caliber," "pistols with small grips," and particularly certain early double-action revolvers—because his hands were small. I don't doubt that he used such guns, if they ever came into his possession; but I doubt that he chose them for that reason. My hands are small, too; yet I have no trouble handling the "Peacemaker," the Colt Single Action. That stock, in my opinion, will fit any hand—or more nearly so than any other. It must have suited Billy the Kid; because Billy *did* use the Colt Single Action.



What kind of a man was he? It depends undoubtedly upon the point of view. They will tell you that he was a killer, and that is true. Some will say that he was all bad; a ruthless little murderer; even a coward. Some of his killings were murder, yes; but he was avenging murder; and killing from ambush is a part of war, whether it be war between nations or between feuding factions. I do not attempt to excuse such things; I simply say that such things happen. . . . It seems incredible to me that anyone should call him a coward—but perhaps I'm prejudiced. So many are.

Perhaps no more fitting epitaph for William Bonney has ever been written than that in Walbert Noble Burns' much read and highly controversial book, *The Saga of Billy the Kid:* *

"Drop into some little adobe house in Puerta de Luna, or in Santa Rosa, or on the Hondo, or anywhere between the Ratons and the Seven Rivers . . . and make some casual reference to Billy the Kid. Then watch the face of your hostess. She will smile softly . . .

"Billee the Keed? Ah, he was one gran'd boy, senor! All Mexican people his friend . . . Poor Billee the Keed! He was good boy—*muy valiente, muy caballero.*"

"Very brave, very much a gallant gentleman." Some men live longer and earn less in the way of epitaphs! Let's let it stand. ◆ ◆ ◆

* *Doubleday, Doran & Co., Inc., 1928.*

MAKE MINE RELOADS

By MAJOR ELLIS LEA

I WAS MAD! I stomped into the house and dropped my pistol kit on the floor by the radio and yelled for my wife. I heard her tell the kids to go out and play. I knew she sensed something was wrong. There was.

"Here I am," I yelled, "top man in the winter gallery shooting for our league and I just fumbled myself out of the Pewee Valley pistol championship, outdoors."

It was my own damn fault and that was what made me so mad. This five-team league of ours is not much compared to some leagues and I am no man to make Harry Reeves hang his head in shame. Just the same, I was top dog in this bush-league shooting and loved every minute of it. As luck would have it I started the war years with a case of .22's and nursed them along, making good use of them when ammunition was scarce or nonexistent. As a result of all that regular practice I was number one in our first year of postwar league shooting.

I should have done well enough with the .38 (center fire, the NRA calls it) but for the fact that I was too hard-headed and tight to go in for reloading.

Our outdoor pistol shooting got off to a late start. When it did and I got around to pricing .38's, I found they were spelled .38 $&W peial. Two-fifty for fifty is an awful whack at a poor man's pocketbook. I can remember when the same stuff was a buck back in '40.

Another thing that hurt was that Walt Latrone of our club was all hot for reloading to cut his costs (even though he could afford it better than I). He tried to sell me on the idea but I knew little about reloading and the price of equipment seemed like too much money. Walt has a bit of dough and he bought himself a big-time outfit. He experimented with different powders and bullets—I guess he had six bullet moulds—and finally came up this spring with a swell load. I should know. It beat me out of the Valley championship.

I can see now that it was handloading that kept Walt in shape all summer by furnishing cheap .38's when the rest of us were shooting .22's and wishing we had the dough for bigger stuff. I used some of Walt's handloads. He started from scratch, not knowing anything about reloading, but by then I couldn't tell the difference between his loads and factory stuff. There was some, I guess, but I couldn't find it.

I fired that summer with the .22, and got in only a couple of boxes of .38's. I thought I could beat the rap. I shot day after day with my Woodsman, and trusted to luck and a little dry shooting to carry me through the center-fire part of the big match.

When the championship match came around I won the .22 aggregate, getting two firsts and a second. Half way home I had a 16 point lead on Walt. (We haven't started shooting the .45 here yet.) I wasn't much worried when I took third in the slow fire and Walt cut my lead to 12 points. With timed, rapid, and the three stage comin' up I was living on an atom bomb and didn't know it.

When time got short and the shootin' fast, my lack of practice with the .38 began to show up. Not being used to the revolver I froze on the heavier pull and jerked some lousy shots. Then I flubbed the hammer and let a live round go by.

I messed that string up trying to get around to that cartridge and squeeze it off. That wasn't all. Those gremlins from "No Practice Land" had some more misery to saddle for me. On my third rapid string I closed the cylinder with a loaded cartridge under the hammer. The target was half turned when I finally fired it but that didn't help my peace of mind. On the last string it looked as if I had opened my Poly-Choke.

As a final blow I failed to get one off in the rapid of the three stage match.

I was blitzed, plowed under, salivated, simply because I was too dumb to realize that if you want to learn to shoot and stay at the peak of your ability you have to practice with a particular gun. Twenty-two semi-automatic pistol shooting isn't going to help you much with the .38 revolver. You have to shoot them both if you want to hold your own.

When my wife walked in the room, after shooin' the kids out of the house, I could see she knew trouble was brewin'. Now I can laugh at the expression on her face, but then it wasn't funny.

"Marie, I'm goin' to have a reloading tool if I have to rig the church bingo game to lose," I said.

"I knew you would have to get it sooner or later," she said. "I was hoping we would get out of debt for the last gadget before you found a new one you couldn't do without."

I slid a kiss across her forehead as I headed, double time,

for the den to grab a handful of catalogs and make out an order blank. I only needed a little refreshing for I had pretty well decided what I would have—if I could have it.

I knew the mould I would get would be the same that Walt had settled on—a Bond J358610, bullet, weighing a little under 150 grains. It is slightly boattailed, and is very easy to start in the cases. This makes for speed without haste. Seated deep, ahead of 2.5 grains of Bullseye or 2.8 of No. 6, it shoots consistently in the same group as Western wadcutters with no

change in windage or elevation. I had known these things all along, but had been too dumb to use them!

I had decided that since I would be reloading on a shoestring, a Pacific powder measure would be just the thing although I had a hard time deciding between it and the Ideal No. 5 at half a buck more. I intended to stick with a tested load and leave the costly experimentation to someone with more *dinero* than me.

I could see no difference between the Ideal and Bond lubricator and sizer so I shut my eyes and took the Ideal. They also got my order for the lead pot and a spout dipper.

All of this was easy, but I did not find the selection of the tool itself easy. While I liked Walt's Potter Automatic Duplex I did not feel that I could afford it or even the standard Potter duplex. The Pacific looked good. So did the Jordan, but I decided I did not need all of that equipment for the .38 and possibly the .45 auto. Besides, they looked sorta slow and would cost as much as all the rest of my outfit put together. I felt I would need some production potential to keep me in shooting ammunition.

The Potter Gem and the Belding & Mull fell in the same class as the Pacific. On the other extreme the Ideal No. 3 was considered and passed as being too slow and too hard to work for my purpose, although it did seem serviceable and cheap.

About the time I was beginning to case the local bank for a job that would give me enough money to buy a Pesco and a ten-cavity mould I ran across a little four page blurt of C. C. Johnson's regarding the Red Head Reloading Press. I had written for information months before out of curiosity. When it came I looked at it and filed it without much attention. Now I studied the pictures, details and prices.

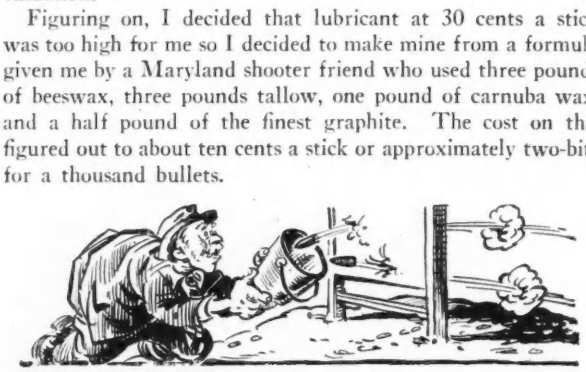
Press complete for one cartridge with muzzle resizer for less than fifteen dollars, then. I had my tool. All dies were attached to a rotating head. It used one less die than the Lyman Tru-Line Junior and was $8.00 cheaper.

Jotting down my choices at current prices they read:

Bond double cavity mould	$ 8.00
Lead pot	1.00
Dipper	.75
Ideal lubricator & sizer	10.00
Pacific powder measure	7.00
Red Head reloading press	14.50
1,000 primers	6.00
1 pound Bullseye powder	2.60
	$54.35

I'd been saving all my brass and hooking a little on the side for some time and I was well fixed on that—nothing to buy. I had picked up about 20 pounds of cable sheathing when I was first considering the idea of reloading. That was a start on bullet metal. I felt sure Joe Wallace at the Mud River Printing and Binding would help me out with some type metal to harden my lead enough for handgun use. More lead could be obtained from the bank back of the targets on our range, so I planned a trip to get it before someone else did. Gold and silver were no longer precious metals to me. I was a reloader now, almost, and lead and brass had supplanted them in my valuation.

Figuring on, I decided that lubricant at 30 cents a stick was too high for me so I decided to make mine from a formula given me by a Maryland shooter friend who used three pounds of beeswax, three pounds tallow, one pound of carnuba wax, and a half pound of the finest graphite. The cost on this figured out to about ten cents a stick or approximately two-bits for a thousand bullets.



Tabulated, all this looked like a steal:

Lead for nothing	——
Grease for 1,000 bullets	$ .25
Primers for 1,000 cartridges	6.00
Powder for 1,000 cartridges	.90
	$7.15

With factory stuff at $50 a thousand I would save $42.85 on the first thousand rounds loaded—almost the cost of the entire layout.

Even if I did have to buy lead and tin and the cost ran up to $10 a thousand, reloaded, I could still shoot as much with the .38 at fifty cents a box as with the .22. That was what I needed to take that Pewee Valley Championship next year.

Well, the bank balance hit bottom that month and the month after, but I had my tool and was out to make it pay for itself. All that winter I spent my spare time stinking up the wife's kitchen with lead flux and spattering the walls with hot lead. When spring came I had a helluva mess of bullets moulded, greased, and stashed away, ready to go into the small supply of cases I had.

That summer I started in front and stayed there. I shot with Walt about three times a week and watched him fall a little behind most of the time. When the Pewee Valley Championship came along again I duplicated the .22 caliber sweep of the year before and with two firsts, a second, and a third I won the center fire aggregate by seven points.

There is nothing difficult about reloading, I found. The Ideal or Belding & Mull handbooks give you all the dope you

have to know about putting good ammunition together. If you are really lush and want to spend a little more dough, Phil Sharpe's book on handloading is the last word at $7.50.

Let your pocketbook be your guide (don't forget the wife) and get started. What I have told you about how I got started is simply one man's idea. You can form your own from what I have said and what you find in the various reloading catalogues. You won't go wrong with an Ideal outfit, nor will you be off base with a Pesco, Star, or Potter, or a half dozen other tools. The answer is how much you want to pay and what advantages you desire.

Chloroform your wife (light dose), write out a few checks, send for that reloading tool, and find out what fun shooting can really be. ♦ ♦ ♦

GOOD NEWS FROM THE DCM!

The best postwar news shooters could hear has just reached NRA Headquarters from the Office of the Director of Civilian Marksmanship. The sale of .30 caliber Springfield rifles in ample quantities is now in effect, on the old basis of one to a "customer"—with the privilege of purchase limited to adult members of the National Rifle Association.

Here are the details, exactly as sent out from the War Department's DCM office:

1. The Director of Civilian Marksmanship announces authorization to approve sales of certain models and grades of U. S. rifles as noted below to adult members of the National Rifle Association.

a. The U. S. Rifle, Cal. .30 Model 1903. These are all used and not reconditioned. They will be classified for sale by Ordnance inspection as Serviceable or Unserviceable. For this service, $1.00 will be added to the usual packing and handling charge of $1.85. The price of the "Serviceable" grade is $30.00. The price of the "Unserviceable" grade is $15.00. The serial numbers of these rifles will be above 800,000 for Springfield Arsenal manufacture, and above 285,507 for Rock Island Arsenal Manufacture.

b. The U. S. Rifle, Cal. .30 Model 1917 classified as "Unserviceable." No more serviceable rifles of this model are available except to complete the accepted orders now on file in this office. The price of this "Unserviceable" grade of the M1917 rifle is $5.00. The prices of spare parts for this rifle listed in the 1947 Price List are now cut 50 percent. This includes a large supply of barrels for this rifle at $1.97 each.

c. The U. S. Rifle, cal. .30 M1903 A3 in the following grades:

(1) New:	Price	$50.00	
		1.85	Packing and Handling
		51.85	
		5.70	11% Excise Tax
	Total	57.85	
(2) Used:	Price	$50.00	
		1.85	Packing and Handling
	Total	51.85	

2. No replacements or adjustments will be made on any rifle of either model or grade described above, except the Model 1903 A3.
3. Except for the Model 1903 A3, each purchase request must contain the following certificate:
"I agree to accept this rifle in whatever condition it may arrive from any shipping point in the continental United States. Furthermore, I understand that a rifle classified as "Unserviceable" is unsafe to fire until examined by a competent person such as a gunsmith, to insure that all safety factors exist, including a test for headspace not greater than 1.946 inch." (*Signature*)
4. Buyers are warned that the headspace requirements are equally important when a new barrel is fitted. No U. S. Government facilities are available to aid in headspace checking, barrel fitting, or other repairs.
5. Starting with the year 1945 an NRA member may buy one rifle only in each of the following categories:
(1) M1917 (Enfield) Serviceable or Unserviceable, 1 only.
(2) M1903 (Springfield) Serviceable or Unserviceable, 1 only.
(3) M1903 A1 or M1903 A3 (Springfield) 1 only. (There are no more M1903 A3 rifles available for sale at the present.)
6. COMPONENTS AVAILABLE:
Powder IMR #4895 at 22½¢ lb. (100 lb. lots)
Bullets, Rifle, Cal. .30 M2 at $7.15 M
Bullets, Pistol, Cal. .45, $7.80 M
Cases, primed, Cal. .30, $17.95 M
EXPECTED SOON (Watch for announcement—don't inquire):
Primers—Caliber .30
Primers—Caliber .45
Bullets—Caliber .30 M1
7. AVAILABLE IN VERY LIMITED QUANTITIES:
Rifles:
Caliber .22 Mossberg Target Rifles, used; for sale to rifle clubs only until supply is exhausted. These have a military model stock and a receiver rear sight.
Price $15.00, plus $1.85 for Packing and Handling.
Binoculars and Telescopes:
Binoculars M2 B&L 8x56, $70.00, very fine glasses, but too heavy for hunting.
Binoculars M6 6x30, $40.00
Field Glass EE 6 Power, $25.00.
Telescopes—3 eyepiece, French M1917 15X, 20X, and 25X with tripod, (as is), $25.00.
These are in poor shape, but once had quite good optics and with a little lens cleaning should still make a fair team spotting scope.
8. Purchase requests are processed in the order of their receipt. Please refrain from making unnecessary inquiries about status of orders. Relevant information on DCM sales will be published in the RIFLEMAN.
9. The supply of price lists is exhausted. A revision is being prepared and will be announced as soon as ready.
10. A written request for purchase of items including correct name and description with NRA card enclosed will be accepted for processing. Send no money with this request.
11. There is now ample .22 caliber ammunition for sale without restriction to rifle clubs.

T. F. WESSELS, Colonel, Infantry,
Director of Civilian Marksmanship.

In ordering rifles or other shooters' supplies from the DCM, NRA members *must* remember the following:

Include National Rifle Association membership card.

Include the certificate, word for word, quoted in paragraph 3.

In ordering, include the *full* description of the rifle or supplies wanted, so there can be no possibility of error.

The DCM is a busy War Department office, and a clear, concise order will mean faster delivery.

Send no money to the DCM with your initial order. When your order has been processed the DCM will send you a memorandum explaining the procedure to be followed in remitting. Average time of delivery, from the date your request is received by the DCM, will take considerable time, due to the load it will put on the processing agencies and depending upon the volume of orders. Do not inquire about your order. We will keep you posted in the RIFLEMAN as to the rate of processing of sales.

Address purchase requests (accompanied by NRA card) to the Director of Civilian Marksmanship, Department of the Army, Washington 25, D. C. ♦ ♦ ♦

The Stockholm INTERNATIONALS

AT TEN A.M. ON August first the flags of twenty nations were raised simultaneously on the Stora Skuggen rifle and pistol range outside Stockholm, Sweden. After a short speech welcoming foreign competitors to the matches, General W. A. Douglas, Commander-in-Chief of the Swedish Army, went to the firing line of the 300 meter range and fired the opening shot of the first World Championship rifle and pistol matches held since those in Helsinki, Finland, in 1937.

Throughout the International Matches flags of twenty nations flew over Stora Skuggen range

With officials, competitors, reporters and cameramen watching, General W. A. Douglas of the Swedish Army fired the opening shot of the first postwar World Championship Matches of the International Shooting Union

Skeet and clay pigeon matches were included in the program of the Stockholm Internationals

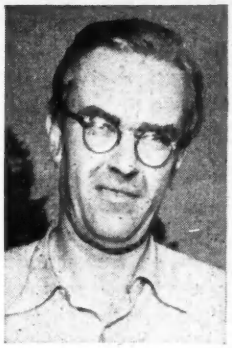
Keystone

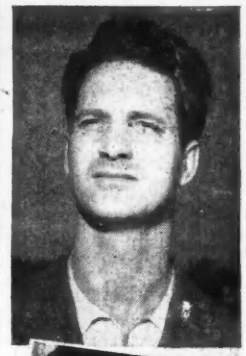
Eighteen European nations, Argentina, and Egypt had sent squads to the matches, varying in size from six to the forty men who comprised the English team. Argentina, backed by an $80,000 appropriation from its government, sent twenty-three competitors who arrived in Sweden on June twenty-seventh and spent the intervening time shooting the Swedish rifle on the Stora Skuggen range. The English team almost didn't arrive, finally reaching Stockholm just prior to the matches on a "training flight" of the Air Force with arms, ammunition, and other impedimenta. Greece, whose financial plight has made it necessary for the United States to contribute direct aid in money and materials, sent its representatives to Stockholm in a Greek Army plane furnished by the U. S. On the other hand the United States, which had sent Brigadier General Merrit E. Edson, USMC, to the meeting of the Shooting Union early in 1946 to get an "American Match" (fired at 200, 300, 400, and 600 yards) and an American style pistol match included in the program, was unable to circumvent the red tape involved in securing transportation for a team and was represented only by one delegate who used regular commercial airline accommodations to get to Stockholm. Lt. Col. Noah J. Rodeheffer, USMC, was the delegate sent by the NRA to attend the meetings at which the postwar International Shooting Union program was established. Despite the handicap imposed by our failure to send a team, he was courteously received and was warmly supported in the majority of his proposals for future Shooting Union activities.

In the Shooting Union meeting August first and second, several things were accomplished which will be of interest to American shooters. For one, the amateur rule of the Union

was clarified, particularly as it impinged upon Olympic competition. The United States has long been reluctant to participate in Olympic shooting activities because of a vague rule defining amateur status. It was felt that some of the national shooting societies on the Continent read a rather different meaning into the "amateur" rule than could be read into English translations.

The new amateur rule, which has not yet been passed upon by the Olympic Rules Committee, is reasonably specific. It says that amateurs will *not* include: (a) Those who give paid exhibitions in marksmanship; (b) those who professionally test guns (this is the only ambiguous phrase in the rule and will need clarification); (c) those who professionally instruct in marksmanship (this does not include members of the armed services who instruct recruits). A man's shooting activities for the two years prior to Olympic participation will determine his amateur standing. Money not in excess of eight dollars a day or forty dollars a week may be accepted without an accounting and without affecting a person's amateur standing. Prizes in excess of these sums must be reported to his club and, if the winner is to retain an amateur standing, he may retain only such amount as will cover his actual expenses, including entrance fees, ammunition, and living and traveling costs as defined by the International Olympic Committee.





(Above, left) Thorsten Ullman, Swedish Olympic pistol ace, won the center fire championship match at 25 meters (Above, center) Winner of the "English Match," fired at 50 and 100 meters, was O. Sannes, a Norwegian junior (Above, right) The four position free rifle match at 300 meters went to Kurt Johansson, another Swedish rifleman (Right) Sweden's Olle Skoeldberg won the single-shot running deer match fired with the free rifle at 100 yards

One of Norway's four world championships went to Willie Roegeberg for his score of 399 in the match of forty shots at 50 meters, metallic sights

A second item of interest to Americans was the decision to hold the 1949 International Shooting Union Championships in Argentina. A tentative plan was adopted at the suggestion of the American delegate to alternate the site of the Internationals between the Western Hemisphere and Europe.

It was also determined that the shooting portion of the 1948 Olympic program was to be limited to a 300 meter free rifle, three-position match; a 50 meter, sixty-shot prone, .22 caliber rifle match; a 50 meter, sixty-shot free pistol match, and a five-bobber pistol match similar to that fired at Stockholm. This program is unsatisfactory to many nations other than the United States and the Finns announced that at the Olympics of 1952, to be held in Finland, a much broader program including service rifle events would be fired.

From August three to August tenth competitive small-bore, service, and free rifle matches; free pistol, silhouette, and center-fire pistol matches; clay pigeons, running deer, skeet, and field shooting events comprised the program of the World Championship tournament. At the end of the meet Sweden had won thirteen world championships, Switzerland five, Norway four, Argentina and Finland three each, and Italy one. Colonel Rodeheffer fired in two of the individual pistol competitions, finishing third in the service pistol match. ● ● ●

Upon returning from the International Matches at Stockholm, Lt. Col. N. H. Rodeheffer, USMC, American delegate to the International Shooting Union; made his report of the meeting to Maj. Gen. J. S. Hatcher

Stop That Buck!

(Continued from page 14)

high gear. It will be of some help if the average body lengths of a few local deer are measured. With the animal's body as a yardstick, the hunter's judgment will be far better than when based on pure guesswork.

The roughly oval mass which makes up the body of a deer includes the rump and base of the neck. In museum white-tail specimens measured, this oval averages approximately four feet in length. The diagram on page 15, using this figure, shows approximate, relative leads which should be used with various cartridges and velocity brackets to hit a thirty-five-mile-per-hour deer at 100 yards when its angle-off is 90 degrees.

Thirty-five miles per hour is probably close to top speed for any North American deer. If the hunter figures his target at one-half or one-fourth of that rate for slower animals, he can divide the lead figure by two or four to arrive at a reasonably correct lead for another speed, *if* the deer is traveling at a right angle to the line of fire.

Changing that angle presents a different and difficult problem. For example, the lead for a 90 degree angle-off is not cut in half when the angle becomes 45 degrees. It is a 30 degree angle-off, and not 45, which requires one-half the lead needed for a 90 degree shot.

Fortunately, this function of lead can easily be twisted to the shooter's advantage. The projection of the "four-foot" profile varies in the same ratio as do the lead requirements. For example, assume that a 90 degree angle-off requires that the aiming point be eight feet (two "deer length" leads) in front of the target. If the buck changes his course so that the angle-off is 60 degrees, he can still be hit by holding forward a distance equal to two "leads" or body lengths as they appear at the new angle.

The lead requirement decreases as the buck swings away, until with a straightaway or stern shot, the hold should be dead on if the deer is running on the level. At this time the upper half of the target will present spine, head, and neck shots while the lower half offers the gut or leg crippling regions.

The velocity brackets listed with the diagram on page 15 are so arranged that any cartridge within a single bracket may be used with that lead and if properly aimed not fall out of the "ten ring" of the neck target. For cartridges not listed, an approximation of average velocity over the first 100 yards can be worked up from manufacturer's ballistic tables by averaging muzzle velocity and remaining velocity at 100 yards. In this way a hunter can estimate lead for his favorite load, regardless of whether it's a souped-up wildcat .22 or an old .45-90.

This discussion of lead and its problems is, in effect, a negative approach to the business of neck vs. heart shot. If, as seems fairly obvious, the average once-a-year deer hunter cannot effectively judge his lead under the varying conditions of game speed, direction, and equipment, he must compensate for that lack in his choice of a target area. It is here that the argument for the neck shot will win favor among hunters who, lacking the experience of the professional, must combine practicality with sportsmanship. The neck shot, offering a killing hit with a maximum allowance for error, is an obvious choice.

To put the whole affair on a blunt, meat-getting basis, the hunter who uses the neck shot, regardless of considerations of sportsmanship and humane killing, is going to stand a better chance of bringing home his buck than will the adherent of the time-honored heart aiming point. ◆ ◆ ◆

The December issue of THE RIFLEMAN *will include a further study of the NRA's survey of deer kills. Equipment —its popularity and its performance—will be covered, based on the same 5,000 deer kill records from which the facts for this article were taken.—Ed.*

An M-17 and a K-43

(Continued from page 32)

had practically no tool marks in it. I feel sure that this barrel would pass the star-gauge examination.

On checking the trigger pull I found it was about nine and one-half pounds. This was very easily reduced to four pounds, retaining the long take-up but ending in a definite crisp let-off. I straightened the trigger guard by the dowel pin method suggested in a past issue of THE RIFLEMAN and it worked well. This, however, made it also necessary to shorten the magazine box. By this time our mailman had delivered the Bishop stock I had ordered, which I promptly took down to the shop. I got out my Prussian blue, the blue brush, my many chisels and files, and started to work. It took a few hours of alternate brushing on the blue and relieving the stock to get it to the point where I was satisfied. After the action was firmly and snugly bedded into the stock, I took a crayon and marked the wood that was to be removed from the outside. This was soon accomplished and the sanding commenced. After the usual procedure of raising the grain, I applied linseed oil to the stock each day for about three weeks.

When it came time for bluing the barrel and action, I had decided on a bright finish. After polishing with "C" Leah compound and finishing with a high luster buff, the scope clamps and base were blued along with the action and barrel. When the entire rifle was assembled, I could hardly wait to get to the range to try it out.

I was not too sure how perfectly I had mounted the scope to the action in relation to the bore. In bore sighting the scope, I had found only a slight adjustment was needed, but during actual firing I found that in order to move the point of impact to meet the line of sight at 100 yards, it was necessary to have the calibrations for elevation read 300 meters. I then determined that by releasing the three screws on the scope elevation plate I could set the calibrations to the actual point of impact. This I have done with both the elevation and the windage. I have not as yet had the opportunity to check these calibrations with points of impacts at the various other ranges, but theoretically at least, it will not be too difficult to use the meter calibrations on the scope for the standard yard with certain bullet weights. I am certain these readings will be no less accurate than my own estimate of the distance to the target, especially in mountain country. A ten-shot group at 100 yards with issue cartridges of 1944 vintage from a bench rest, after fifty shots had been fired through the barrel, was about a half inch, measuring from centers. This performance is good enough for me and I am sure bad enough for any "sheep" within range. ◆ ◆ ◆

THE MAN BEHIND THE GUN

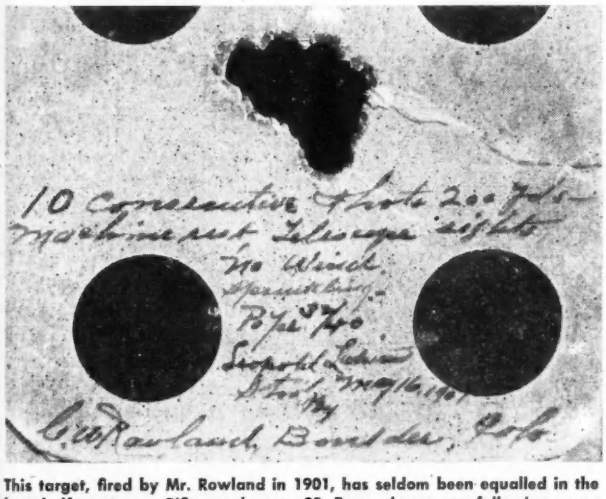
By C. C. HANKINS

C. W. ROWLAND AND HIS RIFLES . . . THE STORY OF ONE MAN'S ATTEMPT TO ACHIEVE THE ULTIMATE IN ACCURACY

The late Charles W. Rowland was probably the greatest bench-rest shooter of all time. It was Rowland who took rifles by the fine gunmakers of the last century and got results with them which often could not be equalled by the makers themselves. Like F. W. Mann, Rowland was a tireless investigator. A personal fortune allowed him the leisure and means to devote unlimited time to the problems of extreme accuracy. Today, C. W. Rowland's 200-yard groups stand as the finest personal shooting record of any man who ever lived.

The type of equipment Rowland used has practically vanished from the American scene. A few hundred muzzle-breech loaders, marked with the names Pope, Schoyen, and Zischang, remain in the gun cases of a handful of old-timers, and the occasional younger shooter who has become interested in Schuetzen shooting has a rifle or two. These rifles are a unique type, and no more will ever be made. Developed solely for extreme accuracy, the muzzle-breech loaders of Pope, Schoyen, and the others were loaded from the muzzle, using cast bullets. The powder charge was inserted from the breech. They were always built on fine single-shot actions. The skill which went into their boring may never again be equalled.

These notes, by a friend and pupil of Rowland, are recorded here for the first time. In these days of precision factory ammunition and super-accurate rifles, the methods and experiments of C. W. Rowland stand as a monument to the Rifleman of Yesterday, whose devotion to shooting made possible our modern equipment.—EDITOR.



This target, fired by Mr. Rowland in 1901, has seldom been equalled in the last half century. Rifle used was .32 Pope shown on following page

One of the few existing photographs of C. W. Rowland at his shooting bench

THE LATE C. W. ROWLAND, long recognized as the greatest bench-rest shot who ever lived, as well as one of the best off-hand shots of all time, died on July 6, 1936. With him went possibly a greater unwritten and unrecorded knowledge of the Schuetzen type of shooting than would ever be possible for another individual to compile. It attempting to set forth in a small way the story of Mr. Rowland and his rifles and methods of shooting, a little concerning the man himself might be said:

Mr. Rowland was born on November 15, 1859, near Ogdensburg, New York. He lived in New York State until the early 70's, when he came to Colorado and took up residence in the city of Boulder, where he lived until his death.

Being a born rifleman, Rowland was naturally a hunter. For a time Rowland hunted big game for the markets but he soon sickened of this and quit. Rowland then entered the employ of a flour mill as a journeyman miller. Three years later he accepted the position of head miller for the Boulder City Mills, in which capacity he served until 1905, when he took over the management of Boulder's largest mill, which he operated until after the close of World War I.

Flour milling was Mr. Rowland's only business. He has been referred to at times by those who did not know him as "Doctor" Rowland which, of course, was far from the truth. He was known as "Charlie" to his friends and acquaintances.

Mr. Rowland's rifle experience started when he was nine years old with a cap-and-ball Schuetzen. He never lost his love for these rifles, in spite of an interest in all later types of target rifles up to the International Match Springfield, which he expressed a desire to try shortly before his death. Only his death prevented the writer from helping him satisfy this desire.

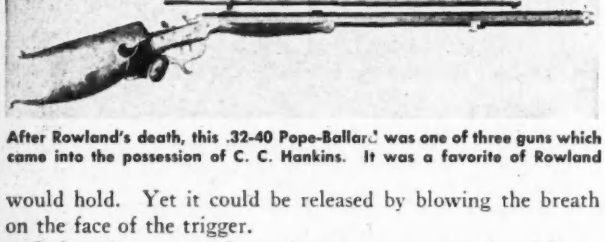
In the writer's opinion, Mr. Rowland's phenomenal success in shooting was due to two things: His wonderful physique and his constant research and experimentation.

Regarding the first: In his prime Mr. Rowland weighed 190 pounds and was six feet tall. He was a perfect athlete, and an exponent of the theory that "a sound body helped in the support of a sound mind." He had "no nerves" and possessed the clearest, sharpest eyes of anyone that I have ever known. At the age of seventy-seven, only five weeks before he died, Mr. Rowland demonstrated to me that he could read ordinary newsprint at seven inches or seven feet from his eyes, without the aid of glasses. On his seventy-fifth and seventy-sixth birthdays, he shot groups at 200 yards that proved his skill had not lessened; this in spite of the fact that his body was only a shell of its former self. He said he was sure his unaided vision was the equal of that of a person with normal sight aided by a two-power telescope.

Regarding the second: His experiments started at the age of nine and ended at seventy-seven, at the time of his death. Rifles from all of the finest barrel makers of his time were owned and used by Mr. Rowland—Billinghurst, Perry, and Tisdel in his earlier years, on down to Zischang, Pope, and Schoyen in later times.

Mr. Rowland's attention was not all centered on barrels, however, though many were built to his own ideas and specifications. Actions, stocks, and sights all came in for the closest co-ordinating so that, when stocked to his specifications, the heavy rifles seemed much lighter in weight than they really were. In one instance he spent more than two thousand dollars on a rifle before it reached the perfection that he required. This rifle was a .32-40 Pope on a Ballard action. It remained his favorite, though he said that it shot no better than others that he had owned.

Rowland used both Winchester and Ballard actions but really preferred the Ballard. Not being satisfied with it as the manufacturer had designed it, he rebuilt the trigger mechanism to his own ideas. For months he worked, decreasing the number of moving parts by half, but could not make the assembly function to suit him because he lacked the tools to do the precision work that was necessary. Finally he took his specifications to a gunsmith and offered fifty dollars to have it properly assembled. Knowing the precision that would be required, the gunsmith refused to accept it at any price, but promised to do the best he could. When the trigger was finally completed, with small sewing needles for bearing pins, it was so perfect that the rifle could be jarred considerably and it would hold. Yet it could be released by blowing the breath on the face of the trigger.



After Rowland's death, this .32-40 Pope-Ballard was one of three guns which came into the possession of C. C. Hankins. It was a favorite of Rowland

Only a few sets of these triggers were ever made. I know of two in existence today—one set which was given to Mr. H. A. Donaldson and later transferred to Mr. Samuel Clark, Jr., and another which is still on the .32 Pope as Mr. Rowland had it at the time of his death. He was very proud of these triggers.

Even the bullet seating rods came in for the minutest attention. Woods of many kinds—hickory, ash, oak, cedar, pine, rosewood, mahogany—were tried in the attempt to find a wood that would not carry grit or injure the rifling of the barrel. In preparing them, they were first shaped by hand and then steeped in linseed oil for several days in a specially prepared tank, their length being determined as the last operation. His conclusion was that any kind of wood could be used that would not warp and would take on a mirror-like finish, as the latter property lessened the likelihood of dirt being carried into the bore. In displaying his rods to me once, he held out one made of cherry that he was then using in his .39 Schoyen and remarked, "I like this; it is pretty." It was truly a work of art.

In all his later Schuetzen shooting Rowland loaded the rifle by inserting the bullet into the muzzle with a bullet seater and false muzzle. The bullet was then pushed down the barrel with the seating rod described above, to a predetermined point, usually about one-sixteenth inch ahead of the case, which was then inserted at the breech with its powder charge and primer. He very seldom shot "dirty," as he called it, by placing the bullet in the chamber with a seating tool, from the breech. Like Pope, he believed that by loading the bullet from the muzzle the barrel was cleaned as it went down, and thus in effect each shot was fired from a clean barrel.

Primers were weighed to one-tenth of a grain, segregated according to their respective weights, and shot accordingly. He said he found the primer metal to be very uniform in thickness, the difference in weight being accounted for by the amount of priming mixture used. It did not matter what weight of primer was used so long as each score was fired with primers of the same lot.

Bullets, Rowland found, were the most important factor of the load and the most likely to be out of tune. They not only had to be perfectly cast, but the mixture had to have the right temper to fit the powder it would be used with. Smokeless powder, which he used at the last, required bullets of a harder temper than those used with black powder. In casting his bullets, Rowland had the mixture stirred constantly to keep the metals evenly mixed, and rarely skimmed off the dross. He said that in skimming one took out a portion of the tin and thus softened the temper of the remaining metal. All bullets were shot in the same sequence as cast, in lots of ten. Thus, each score of ten shots was fired with bullets of almost identical temper.

Mr. Rowland experimented with all kinds of metals in the search for one that would shoot more accurately. He even tried pure gold, on the theory that its density would make it mold more perfectly. In performing this experiment, he would cast ten bullets, fire them into a soft cottonwood block, and then recover them from the block and remold them. Rowland concluded that gold shot well, but no better than lead!

Only one cartridge case was used for a group and the same case might be used for several hundred shots. It was file marked on the rim, and carefully placed in the chamber with the file mark in the same relative position to the receiver each time, so that no energy was lost in reshaping the case to the chamber. Even the primers were placed in the case in the same relative position. After firing a shot, the case was decapped, carefully cleaned and reprimed, and recharged with powder.

The powder charges were drawn from a Pope measure

which incorporated a priming charge and a body charge. The small priming charge was first dumped in the bottom of the case, and then the body charge placed in and held with a wad. An ingenious tool of Rowland's own invention and make was used, in seating the wad, to place exactly the same pressure on it each time. He said the Pope measure was nearly as accurate as a set of balances and the most accurate measure he had ever used. Fg black or Fg semi-smokeless powder was used as the priming charge and du Pont shotgun smokeless for the main charge. The wads used were made from hat felt that had been carefully cleaned and then saturated with bullet lubricant.

Mr. Rowland experimented with many targets. The one he liked best for bench-rest shooting was the regular bull with a small square of white placed over its center, as the black crosshairs could be more easily seen on the white. For off-hand shooting, he liked the regular German Ring target. He rarely allowed a target to be witnessed as he said his word was enough, and he doubted no man's word on the score he said he had shot. He said misrepresenting a score was "like stealing oats from your own horse. It gets you nowhere."

Wind was the one factor in shooting that Mr. Rowland could not entirely overcome. The range on which he shot for more than fifty years was the scene of many experiments to learn about wind doping. One experiment consisted of using toy balloons, spaced at regular intervals along the line of fire. Considerable disgust was evidenced when some went to the right, some to the left, and some straight up.

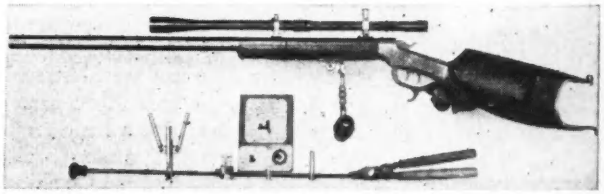
To determine how nearly he had the wind problem whipped, Rowland rented an abandoned mine near Boulder, with a tunnel that ran straight for more than 200 yards. Here, with a door constructed over the mouth of the tunnel so no distracting air currents could interfere, and using lighted candles to test for them, he conducted experiments for several weeks. He fired first inside the tunnel and then outside, and finally concluded he could do as well outside provided the wind drift was fairly constant.

Rowland was active at a time when the most famous of the Schuetzen riflemen lived, and many of them visited him to see how he performed his phenomenal shooting. He mentioned Doctor Hudson, Doctor Mann, and Harry Pope in particular. Doctor Hudson helped with the experiments in the mine tunnel.

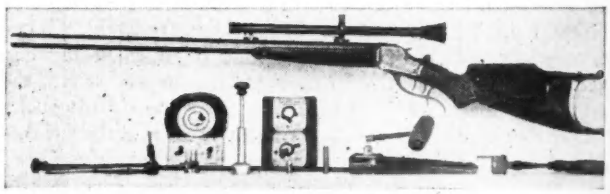
Rowland wrote very little regarding his shooting, and would not permit others to do so as he did not care for the publicity that would ensue; he shunned the thought of the letter writing that would follow. Yet he evidently enjoyed corresponding with members of the shooting fraternity, and was always pleased to exchange loading methods and other data with them. Letters still in his files from Pope, Donaldson, Lovell, and others are evidence of this.

Rowland had time and patience for those who really wanted to learn the Schuetzen game, as the following extract from a letter to the writter shows:

> "Replying to your inquiry as to Schuetzen .32 caliber Pope muzzle loads—will say that of late, for several thousand shots, I have been using 3 grains black or semi f.g. priming charge, with 13.1 grains of du Pont bulk shotgun powder—No. 9½ Remington Non. Cor. Non. Ful. primers —with 1/16 bullet, tin to lead, from Pope mold from virgin metals—tin and lead—hat felt wads down firmly in Remington case. Bullets inserted same side up in chamber each shot, as is bullet as to same relative position to barrel muzzle, as to mold.
>
> "I take great pains in keeping metal in melting pot at proper temperature and thoroughly stirred to maintain uniform homogeneity.
>
> "I employ bullet blocks of black walnut with ten hole rows bored to receive bullets point down from mold, several seconds of ladle contact to sprue, also same time for lead to solidify after ladle nozzle leaves sprue hole.
>
> "The bullet is marked at point upper mold parting with pin point needle after cut off and while still in unopened mold. The newly cast bullet is then carefully dumped from mold to thick woolen mat and then immediately placed upon pan of balance sensitive to 1/10 grain. If accurate to 1/10 grain that bullet goes into a hole in bullet block and so on consecutively.
>
> "If a bullet balances plus or minus 1/10 grain, it goes back to melting pot to be reborn. Thus, the result is a series of bullets of even weights and consecutively cast, a very desirable condition toward tight grouping. I use Lyman bullet grease and a tube lined with woolen cloth to push bullet through after lubricating to equalize the grease on bullet.
>
> "I have studied and practiced the Schuetzen methods for over 65 years and am more and more convinced of the necessity for as nearly absolute uniformity as possible in all relating, and with several implements (homemade) am possibly at the 'end of my string'—yet when I view my collection of groups of several hundred under 2 inches and on down to 13/16 inch, 10 shots 200 yards, I feel that 'like begets like.'
>
> "Tis said no two blades of grass were ever created alike, hence no two bullets ditto. At the same time the bullet being the keynote to accuracy, and the base of the bullet the greatest controlling factor, as nearly uniform ammunition manipulation of all pertaining is absolutely necessary for gilt-edge accuracy. No slipshod methods will get us anywhere.
>
> "As to my bullets, yesterday I cast 80 and only had to return four to pot that balances indicated 1/10 grain varia-



33-40 Schoyen-Ballard, with Rowland's groups, is now owned by Hankins



.39-55 Schoyen-Winchester was recently sold to Rowland's grandson

tion. Hence when done casting, I had 80 bullets of exact weights and consecutively cast and thus to be shot. I fear I'm writing too much but if going into what I consider necessary detail it would require much more space.

"If there are other points upon which I can suggest, will do my best, as I think I have absolutely gone the limit with rifles of Schuetzen type, since Billinghurst, James Gardner, Tisdel, Perry, Rice, etc., etc., back to and since the sixties and down to Pope, Schoyen, Zischang, Warner, etc."

More than fifty of the finest Schuetzen rifles passed through Rowland's hands during his lifetime and from this number three were very definitely favorites. These were retained by him when in later life he disposed of all the others. These were a .32-40 Pope-Ballard, spoken of by Allyn Tedmon as "the finest thing in America today"; a .33-40 Schoyen-Ballard; and a .39-55 Schoyen-Winchester. All three are illustrated.

The .32 Pope is fitted with a thirty-two inch, No. 5 barrel, on a beautifully engraved Ballard action, with a curly maple stock. Its telescope sight is a full length 20X, made specially for Mr. Rowland by Smith of The J. Stevens Arms Company. Of all his telescopes, this was his favorite. The rifle is equipped with the trigger mechanism mentioned before. When I first saw this rifle, the trigger was set so light that I released it with hardly any feeling, yet Mr. Rowland said, "I can touch it twenty times without setting it off." Asking him how he accomplished this, he explained that he sandpapered the tip of his finger until the blood was nearly ready to appear. Then his finger was sensitive enough to handle the delicate mechanism. A finger support is fastened to the right side of the action, through which the trigger finger is rested so that all tremor of it can be eliminated, and the tip of the finger left solid and supported for making the release. It is fitted with two forearms—one for rest shooting and one equipped with a palm rest (designed by Mr. Rowland)—the hand piece being made from the hand grip of a bicycle. A muzzle brace for bench shooting is attached to the underside of the barrel. This rifle was his favorite and was used for most of the shooting during the last few years of his life.

The .39 Schoyen is on a plain Winchester high sidewall action with double-set triggers. It is stocked with beautiful walnut and, like the .32 Pope, has two forearms. In addition to its iron sights, it is equipped with a Winchester 5-A scope. Its barrel is a No. 4, thirty-two inches in length, the story of which is most interesting. In passing a spot where workmen were excavating for a new building in Boulder, Colorado, Mr. Rowland saw a piece of metal that had been unearthed and asked to look at it. It was so covered with rust that it was hardly recognizable. When the foreman asked what it was, Mr. Rowland replied that it was an old rifle barrel. The other remarked, "I might have known that you could smell a rifle barrel." It was given to Mr. Rowland, who took it to the Mines and Metallurgy Department at the University of Colorado where it was examined. They estimated that it had been buried for fifty to seventy-five years. In due time the old barrel with a fine Winchester high sidewall action was taken to Denver to the great barrelmaker, Mr. George C. Schoyen. On seeing it, Mr. Schoyen exclaimed, "My Gott, Charley, what have you got there?" Rowland asked that it be made into a .38-55 if possible, but it was so eaten with rust that it would not clean up to a .38 caliber so was cut to .39 caliber. Schoyen said it was the best piece of metal that he had ever worked. He said it was "mellow," which property he attributed to its having been buried in the earth for many years. The bore finished up exceptionally smooth, and it proved to be extremely accurate. Mr. Rowland never learned its history but he thought it had been a Hawken rifle of about .30 caliber—a pea shooter, he called it. Many fine groups were made at 200 yards with it by Mr. Rowland, but he did not use it in later years as much as the other two. He said it took too much powder and lead. However, the last group fired by Mr. Rowland was with this rifle. The target, with the rifle, is in the possession of his grandson, Robert C. Rowland.

The .33 Schoyen has a Winchester barrel, recut by Schoyen from a .32 to .33 caliber, on an engraved Ballard action with double-set triggers. The stock and forearm are made of dark Circassian walnut that Mr. Rowland told me came from Soviet Russia. It has only one fore-end, a palm rest attachment with double prong buttplate, and a scope sight but no iron sights.

These three rifles he steadfastly refused to part with. On one occasion the writer, wanting a fine Schuetzen, and particularly one of Mr. Rowland's, asked him if he would sell one of his rifles—he to pick the rifle and name the price. After deliberating momentarily he replied, "No, son, when I die those rifles will be right there in that case."

On this same day I asked him if he were going to try to obtain a Schuetzen rifle today, what would he try to get, a Pope or a Schoyen. To this he replied, "It would make no difference. A gilt-edge Schoyen barrel will shoot just as good as a gilt-edge Pope barrel. I proved that long ago." Then he further remarked, "If I were going to shoot you a match, I would let you go to that cabinet and pick out the rifle that I would use. I've got a bullet for them all." In that cabinet were the three rifles described, two Schoyens and one Pope. I then asked him if he had a preference for any one of them and he pointed to the .32 Pope and said, "Yes, it is this one."

Shortly after Mr. Rowland's death these three rifles and all his shooting equipment passed into the hands of the writer, who until recently kept the rifles in the same cabinet in which Mr. Rowland had kept them.

Early in July Mr. Rowland's son and grandson, Mr. J. G. Rowland and Robert Rowland, paid the writer a visit, to see once more the rifles that were Mr. C. W. Rowland's and to try to get possession of one of them for Robert, the grandson, who has inherited some of his grandfather's love for rifles. While I had refused many times to part with any of his treasures, I could not refuse the boy's request, and let him have the .39 caliber Schoyen. Nothing more is for sale at any price.

It has been the intention of the writer, who knew Mr. Rowland as a friend and was coached by him in the art of Schuetzen shooting, to point out that, in the case of Mr. Rowland's unequalled shooting, it was very definitely a case of "the man behind the gun." No particular rifle was responsible for it. To say that any one rifle was responsible for his finest shooting would be as wrong as saying that Babe Ruth, at his best, could knock home-runs with only one bat. One has only to examine the targets that I have in my possession to see that he shot equally well with all of his gilt-edge barrels. ♦ ♦ ♦

The Old Coach

THE FALL HUNT

OF THE TREMENDOUS NUMBER of hunters who go out every fall, I daresay the majority are men of sedentary occupations seeking a little relaxation and diversion. With a few friends they pick up camping gear, guns, ammo, and a hunting license and head for the woods, intent upon that relaxation and, if luck has gone along with them on the trip, a buck. It's inspiration at lunch on Thursday and off into the woods on Friday.

I won't say these fellows who rush into the woods the moment the trigger of inspiration is pulled don't have a good time. But I will say that they don't get all the enjoyment possible from a hunting trip, nor do they bring back the buck they ostensibly went after as often as the fellow who makes a little preparation for his trip.

Hunting is like any other undertaking. Make a few preparations and the deal will come off a little smoother. If your preparations are fairly complete, you'll even be prepared for emergencies that might arise.

Here are some random suggestions about details that you will not want to overlook in getting ready for your hunt.

Read and know the game laws of the state in which you are hunting. Game Wardens are on the job to help you and to watch over your game. Forest Rangers are there to guard the waters, the forests, the browse and grass—the food and home of your game. Don't look upon these men as a crook views a cop; they are your friends, provided of course that you are a friend to yourself.

By all means make preparation for your hunt in advance. Build up your leg and back muscles, get plenty of rest, and be ready to do ten miles on the trail, or twenty if necessary. If you need new hunting shoes, have them well broken in before you leave home. Be sure your clothing is suitable and plentiful, because to a fellow who is not used to it the night wind that blows his campfire smoke is cold. Any substantial woolen pants, breeches, shirts, and the like are O. K. Wear a hat but take a cap in case of a storm. Wear wool socks and underwear, especially if the season is late and storms are certain. Smooth it, don't rough it—it will be rough enough for you fellows right out of the office. Have a good, comfortable, warm bed and use it; you must get rest.

Leave all your Magnum belt-guns and other junk at home but take plenty of food. Many a deer camp has been snowed in for days at a time and then a few days extra rations come in mighty good. All the time while in camp carry a filled water-proof match box. *Never use these matches, save them for that possible emergency.* A light belt ax can save your life should you get caught away from camp in a big storm. Carry a good compass, a jacket, and twenty feet of quarter-inch rope. A pair of binoculars is fine is have along. Always have in your belt ten or twenty cartridges suitable for signaling if need be; reloads are O.K. Take a man's size ax, a shovel, a hammer, and a few nails. If you get your deer—and I hope you do— don't "cut its throat." Slit the belly back about fifteen inches from the sternum, roll out the lungs and intestines after you have cut the diaphram loose. This will make it a little easier to carry and decrease the likelihood of the meat spoiling.

To be a hunter-rifleman means ability to handle that rifle fast with sure aim. To help develop this skill your Old Coach in the August page suggested the use of several stalker runs or courses. In addition pin up a small picture of a deer, elk, or the like on the wall of your room and everytime you come in grab your rifle and take a quick, sure aim. Handle your rifle every moment you have time; throw it to your face and catch the sights; work the action until you do it all without a single thought. Get all the live ammo practice you can; use the small-bore as often as possible. Practice with it never hurt anyone's shooting eye.

As to a deer rifle, have your own if at all possible. If you are buying one, check your state law before selecting the cartridge. They tell me that the State of Colorado for '47 has outlawed for big game all cartridges with bullets of less than 70 grains weight or less than 1000 foot pounds energy at 100 yards. The law specifies that all .22 caliber cartridges, all rim fires, the .30 M1 Carbine, .25-20, .32-20, .38-40, .44-40, and a lot more are illegal. Among our known good deer cartridges are the .30-30, .303 Savage, .300 and .250 Savage, .32 Special, .257 Roberts, .35 Remington, .348, .270, and .30-'06.

Fact is, it isn't so much the cartridge that insures a kill as it is your skill as a hunter. Very likely your experience is limited as is that of 90 to 95 percent of all hunters today. But if your ability to place your bullet in a killing spot is below par, that is your fault. Select a cartridge with power to kill. Be sure your rifle is sighted in for you at 100 yards for the likes of the .30-30 and 150 or 200 yards for the .250 or '06. Don't try a scope unless you are used to one. Uncle Sam says the aperture rear is tops for Krauts—it is also good for deer.

Take your shot from the steadiest position you can get into; 95 times out of 100 that position won't be prone. Get plenty of practice from standing, sitting, and kneeling. Take ammo that your rifle craves, at least 40 rounds. If you bring back a deer and 39 rounds, O.K.—the ammo will keep.

Aim at one particular spot, never at the whole deer. Keep shooting until your game is surely down for keeps. Never fire blindly into brush at a noise or moving twigs or branches. Never fire after dark for any purpose except into the air or base of a big tree for the purpose of signaling. *Be sure you see what you think you see.* Don't kill your Pal. Save what meat you don't use in camp; never waste it. Kill your fire with water. Be sure your pipe ashes and cigarette butts are dead; break every match before dropping it. Bury and burn all your camp trash and filth. Leave your spot in God's country clean, as clean as I hope you find it. Good huntin' Pardner. ● ● ●

POWDER SMOKE: THE NEWS DESK . . . READERS COMMENT

OLYMPIC AMATEUR RULE

In the July issue of *Tournament News* we indicated that the Olympic "amateur" rule had been revised and clarified in a manner which would recognize the realities of the situation prevailing in the shooting game in Europe and in America. It now appears that our understanding of the situation was in error.

The International Shooting Union has adopted an "amateur" rule which is perfectly clear as to money prizes. This rule is published in connection with the International Match story on page 42.

The "amateur" rule as adopted by the International Olympic Committee appears to be sufficiently ambiguous to permit the acceptance by the International Olympic Committee of the rule adopted by the International Shooting Union. But we have been informally advised that it was the intent of the International Olympic Committee to *tighten* rather than loosen the Olympic "amateur" ruling by the adoption of the recent ambiguous rule.

The rule adopted by the International Shooting Union and published on page 43 of this issue will not apply to the Olympic Games unless it is approved by the International Olympic Committee. If our latest advices as to the intent of the International Olympic Committee are correct, the International Shooting Union rule will *not* be approved and a new approach will have to be made.

In other words, the question "who is an Olympic amateur" is now more confused and more uncertain than ever. We regret the confusion but we and all other national shooting bodies are helpless to clarify the situation until the International Olympic Committee and the International Shooting Union have a "meeting of minds." Definite information will be published as soon as it becomes available.

SUMMER LEAGUE FINALS SCHEDULED

Between September 15 and October 6, the winning teams from thirty-three NRA-registered rifle leagues and ten NRA-registered pistol leagues throughout the country will fire in the finals of the NRA National Summer League Championship. This is the second Summer League Championship to be conducted since registered league competition was begun in 1946. The phenomenal increase in participating teams, from 85 in the summer of 1946 to 292 this season, seems to establish the value and popularity of this outdoor competitive program as an adjunct to the long-popular Gallery League Championships.

Awards in the finals will be made by the National Rifle Association. These will consist of trophies to the winning teams in each league; a trophy (rifle and pistol) to the Champion in each state where at least two leagues are registered; a trophy (rifle and pistol) to the National Champion, plus appropriate brassards and medals to the firing members of winning teams.

This year league champions in California, Indiana, Iowa, Maryland, Minnesota, New York, Ohio, Texas, Virginia, and Florida will compete for Summer League state championships.

The largest Summer League state championship match will be held at the Mt. Gilead, Ohio, range on October 5. Here the best teams from five rifle leagues will fire shoulder-to-shoulder to decide who's who in the State of Ohio. The Ohio Rifle and Pistol Association is continuing its custom of bringing the league teams together in a match at the State Association small-bore tournament.

For the first time since the war, a State and National Summer League Pistol Championship is being conducted. All League Champions will be striving to beat the team of the Federal Employees Pistol Club, Denver, Colorado, which won the National pistol title in last winter's Gallery League Championship.

Among the innovations introduced into the program by the leagues this year was the plan used by the Hawkeye Conference in Iowa. Not satisfied with the usual handicap system, the shooters divided themselves into three classes. These team classes were: Open (anyone can compete), Restricted (limited to Sharpshooters or lower), and Unclassified (made up of new shooters). The result was found to be far more satisfactory than the handicapping systems previously tried.

DIRECTORS ELECTED

At the Annual Members Meeting of the NRA at Camp Perry, Ohio, August 7 and August 14, the following Life Members were elected to the NRA Board of Directors, to serve for the three-year term ending September, 1950.

F. J. Kahrs (Connecticut)
C. B. Lister (Washington, D. C.)
I. E. Nitschke (Idaho)
W. H. Davis (Illinois)
H. L. Gau (Maryland)
Don W. Gillies (Michigan)
E. K. Sobey (Minnesota)
Byron Engle (Missouri)
R. K. Stritzinger (New York)
D. D. Hilliker (New York)
R. C. Bracken (Ohio)
J. C. Mauk (Pennsylvania)
Seth Gordon (Pennsylvania)
Walter Siewert (South Dakota)
K. L. Berry (Texas)
David P. Sugden (Utah)
M. A. Edson (Vermont)
H. J. E. Reid (Virginia)
Fred Mills (New York)
L. A. Pope (California)

GALLERY LEAGUE CHAMPIONSHIPS

The National Rifle Association is accepting registration from leagues wishing to compete for State and National awards in the 1947-48 Gallery League Championships.

All leagues of three or more teams are eligible, providing the team represents NRA affiliated organizations. Any affiliated club or group of clubs can enter a league in this contest.

Awards in both rifle and pistol divisions will be made by NRA at the close of the season to the National Championship Team, to the champion in each State having at least two leagues, and to the winning team in each individual league. Trophies will be presented to winning teams, brassards and medals to team members.

The course of fire for Gallery League competition is optional and may be chosen by the league; only in the State and National finals will the course of fire be prescribed by NRA.

Over ninety separate leagues took part in this nationwide program last winter. Correspondence received already from NRA clubs indicates that this winter's Gallery League Championships will be even better represented. Complete details of league organiza-

NATIONAL RIFLE ASSOCIATION:

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MAJ. GEN. M. A. RECKORD, *Vice-President and Treasurer*
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L. Q. BRADLEY. *Asst. Treasurer and Memberships*
J. R. LENT
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Midwestern ..... Dow Smith, Orpheum Theatre Bldg., Elkhart, Indiana
Southeastern ..... Fred Molt, P. O. Box 7466, 125½ College St, Asheville N. C.
Washington Metropolitan. C. L. Floyd, 1600 Rhode Island Ave., N. W., Washington, D. C.
Far Southwestern..... Lee Echols, Medico-Dental Bldg., Room 101, 3rd & A Streets, San Diego, Calif.
Northeastern..... F. F. Bridgman, Room 408, 175 State Street, Springfield, Mass.
North Central..... S. R. Hinds, 816 Pence Bldg., 8th & Hennepin, Minneapolis, Minn.

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Maj. Gen. M. A. Reckord.....Baltimore, Md. (Vice President and Treasurer)
Mr. C. B. Lister.....Washington, D. C. (Secretary and Executive Director)
Mr. J. W. Woolrey.....Canon City, Colorado
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Brig. Gen. Benedict Crowell...Washington, D. C.
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Colonel N. C. Nash.....Boston, Mass.
Judge Hilliard Comstock.....Santa Rosa, Calif.
Colonel F. C. Endicott.....Washington, D. C.
Comdr. Thurman Randle.....Dallas, Texas

tion and conditions governing the 1947-48 Gallery Championships are now being mailed to all former competitors and to all NRA Club Secretaries.

NRA MEMBER SUSPENDED

At the NRA Executive Committee Meeting, August 14, 1947, Loren A. MacKelvey, 440 East Florence Avenue, Los Angeles, California, was suspended from all rifle and pistol competition until January 1, 1949.

This resulted from charges made against MacKelvey that he attempted to fire more than the allowed number of rounds during a string of slow fire in the 1947 National Mid-Winter Pistol Tournament at Tampa, Florida. The Executive Committee carefully reviewed the sworn statements of the tournament Executive Officer, the Official Referee, the Range Officer, and a written explanation from Mr. MacKelvey in which he indicated that he had not realized he was violating the rules by loading or firing extra rounds in registered competition.

Mr. MacKelvey has been officially notified of his suspension and all competition sponsors are cautioned not to accept the entry of this shooter should such entry be offered. Official Referees have also been notified of the suspension.

NEW COMMITTEE TO HANDLE PROTESTS

The NRA Executive Committee, meeting at Camp Perry, Ohio, on August 14, authorized the appointment by the President of a Subcommittee empowered to act promptly on protests and disputes arising in NRA rifle and pistol competitions. This will avoid the delay between filing a protest and handing down a decision on it which has existed so often in the past. At each meeting of the Executive Committee the Subcommittee will report all decisions so that body can take any further action that is required.

This Subcommittee is being appointed now and an announcement will be made of its members.

RICOCHETS

ABOUT THE SMALL BORE GAME

East Pittsburgh, Pa.

Editor:

Something has to be done about the small-bore rifle game! From my point of view, organized shooting as it is today is losing its appeal among competitive shooters.

When I started shooting back about 1934, I was just a beginner and liked the sport well enough to get myself equipped with a good target rifle and the necessary equipment. The whole outfit could be had for about one half of what it would cost today. Match ammunition could also be picked up then for half of the price today. If you are one of those shooters that attends a two-day match every weekend, then the hotel bill is to be considered which, of course, is also 50 percent higher and the room not a bit better.

The classification system is causing a lot of dissension among our higher bracket shooters. In fact, it is so strong in some cases that they are going to give up the sport and take up trap shooting. They claim that it will be less expensive for the season than

(Continued on page 54)

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Smith & Wesson 1926 Model .44 Military 4" & 5" barrels	64.00
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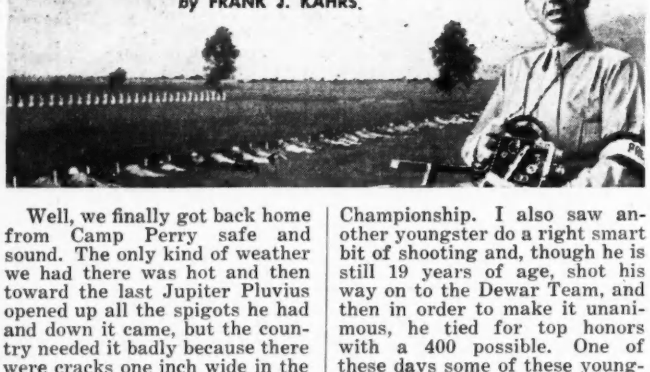
A PAPER FOR PEOPLE WHO SHOOT

Rifle

VOL. 11, NO. 9

BRIDGEPORT, CONN., OCTOBER, 1947



Possibles and Impossibles

by FRANK J. KAHRS.

Well, we finally got back home from Camp Perry safe and sound. The only kind of weather we had there was hot and then toward the last Jupiter Pluvius opened up all the spigots he had and down it came, but the country needed it badly because there were cracks one inch wide in the soil, and the corn and 'tatoes were dehydrated and very sad about the whole thing. In all the years that we have been at Perry, we have never seen hotter weather and we have, therefore, come to the conclusion that the matches were held too early. I think everybody will agree with me on that score, but there may have been reasons for that, which we don't know about. In any event, the NRA, or whoever gets these things started, should begin now for next year and not wait until the last minute to set the dates.

Yes, there was a lot of griping at Perry this year, but that's a healthy sign. Anytime you don't hear the small borer complain, you'd better do something about it, because he is liable to run out on you. On the whole, Camp Perry was a success. They stopped taking entries at 700 rifle and 600 pistol; at least that's what they tell me. We never saw so many oldtimers at Camp Perry at one time as this year. We didn't meet all of our old friends because we were in and out of headquarters, out on the range and the other times trying to find a cool place to get out of the terrific heat.

We were well satisfied to see a couple hundred 37's on the firing line. It's pretty good evidence that they are gaining in popularity and doing a job.

Despite the terrific heat, there were some good scores made. A rather unusual thing happened, too. The National Champion repeated and also the National Lady Champion won again, and the new National Junior Champion is a slip of a girl from the East, who has also recently won the Metropolitan Championship. I also saw another youngster do a right smart bit of shooting and, though he is still 19 years of age, shot his way on to the Dewar Team, and then in order to make it unanimous, he tied for top honors with a 400 possible. One of these days some of these youngsters are going to take over and then you will really see some shooting.

I was very much pleased with the general results at Perry this year, although there's plenty of room for improvement in all departments of the set-up at Camp Perry. I haven't said anything about the showing made with REMINGTON "Targetmaster" or "Palma Kleanbore" and I am no modest, shrinking violet either, as you probably know.

However, if I ever become satisfied with the way "Palma Kleanbore" and "Targetmaster" perform at Camp Perry, then the millennium will have arrived! But, all in all, I saw enough shooters shooting the red and green boxes to make me feel pretty good.

* * *

While the National Small Bore Matches were on at Camp Perry, the International World Championships with rifle and pistol were fired in Stockholm, Sweden. We do not have the details or the results of the individual matches, but a cable tells us that the matches were quite successful.

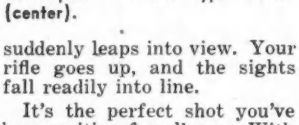
We also know that the Argentine Team won the Pistol and Olympic Silhouette Championship. Finland, England, Norway, Denmark, Switzerland, Belgium, Argentina, Greece, Italy and Holland were all represented.

In any event, I learned that recently one of the Juniors of Holland, Michigan, broke the National Junior Record for the sitting-offhand match with a score of 90 sitting and 90 offhand. And this score was shot during the Illinois Championships.

POPULAR MOD
"WORD"

REMINGTON "CORE-LOKT" BULLETS STOP THE TOUGHEST BIG GAME

BRIDGEPORT, CONN., October, 1947—A sudden flicker of tawny hide seen out of the corner of your eye, your game



(right) the "Core-Lokt" bullet mushrooms perfectly . . . stays in one piece (left). Won't break up on impact like old type bullets (center).

suddenly leaps into view. Your rifle goes up, and the sights fall readily into line.

It's the perfect shot you've been waiting for all year. With the butt plate hard against your shoulder, your finger closes over the trigger—and your bullet is on its way.

A moment like this is time to gamble on the effectiveness of your ammunition. Even when your bullet is perfectly placed, your ammunition can mean the difference between your prize escaping wounded . . . or a clean, sure kill.

When you use Remington big game cartridges with "Core-Lokt" soft point bullets you can depend on them for shocking power which puts your trophy every time. That's because the notched jacket of the "Core-Lokt" bullet opens up on impact to insure maximum expansion power . . . **all** the bullet's energy is expanded in the animal. Whether you're shooting African lions at 50 feet or elephants 400 yards, when your "Core-Lokt" bullet hits, the tough game goes down—and stays down.

AROUND OUR CLUB . . . Position Means Everything

Remington News

WEATHER:
STILL GOOD FOR ANOTHER OUTDOOR MATCH

T, CONNECTICUT, OCTOBER, 1947 — First Class Reading Matter for Rifle Shooters

ODEL 37 DESCRIBED AS RD'S FINEST TARGET RIFLE"

CONSISTENTLY BACKS UP SKILL OF SHOOTERS DURING PRACTICE OR COMPETITIVE SHOOTING

SHOOTERS ARE MADE —NOT BORN HERE'S THE PROOF

One small-bore veteran has just punched his first perfect score—after forty years of shooting for it.

Not long ago, so this fellow tells us, he bought a Remington Model 37 Rangemaster. After he had zeroed in his new gun—using Palma Kleanbore—he tried it out on the range.

The very first target he squeezed off with his Model 37 was a 10-X possible. The first he's ever scored.

It just goes to prove that the old timers know what they're talking about when they say, "Shooters are made —not born."

For More Enjoyable Wing Shooting

BRIDGEPORT, CONN., October, 1947. Whether ranging the uplands for pheasant and grouse, or hunting for ducks along the waterways, your wing shooting will be more enjoyable this fall with a Remington Model 31 repeating shotgun.

Smooth, easy handling and perfect balance make the Model 31 an outstanding favorite among hunters. Its straight-linefeed and short fore-end stroke mean faster, steadier operation in the field. . . . And Remington Express shells have the wallop so important for larger game shot at longer ranges.

HOW AIR MINDED ARE YOUR BALLISTICS?

BRIDGEPORT, CONN., October, 1947—"What will happen to a bullet fired directly to the rear of an airplane traveling at exactly the same speed as the bullet?"

There is a real problem for you amateur ballistics experts to center your sights on.

The answer—just in case you want to compare notes—is that the bullet will drop to the ground from the point at which it leaves the muzzle of the gun. In other words, the gun runs off and leaves the bullet. There will, of course, be irregularities in the fall due to the bullet's spin.

The reason for this, according to the supervisor of ballistics at Remington, is that there is no such thing as "motion" by itself. Motion must always be relative to some other object.

The same principle would apply—in reverse—if the bullet were fired from the nose of the plane. Then the bullet would have a velocity of its own muzzle velocity, plus the speed of the plane.

BRIDGEPORT, CONN., Oct., 1947. When first introduced in 1937, the Remington "Rangemaster" Model 37 Target Rifle won immediate recognition. Top ranking shooters who handled and fired it agreed that the 37 was the finest 22 caliber small-bore target rifle ever manufactured.

In the past ten years, the 37 has steadily advanced in popularity, and now it stands as a leader in its field. Shooters are always quick to note performance, and this accounts for the Rangemaster's rapid climb to the front ranks of target rifles. The Model 37 has an outstanding record. Shooters like the way it handles, like its action . . . like the way it backs up their shooting skill.

Backed by the world's finest and most experienced gun designers, the Model 37 has all the features required for match accuracy. It has a fast, smooth bolt action . . . a specially rifled 28-inch barrel—heavy—semi-floating — double countersunk at muzzle. It has heat-treated operating surfaces to insure minimum headspace without variation.

In addition, the Model 37 has the sensational "miracle" trigger . . . smooth, sharp, crisp; lightning-fast let-off, with no back lash, drag or creep. It has a single sighting plane which lets you put your cheek against the same precise spot whatever type sights you use.

Palma, Kleanbore, Targetmaster, Rangemaster, Express, and Shur Shot are Reg. U. S. Pat. Off. Core-Lokt is a trade mark of Remington Arms Company, Inc., Bridgeport 2, Conn.

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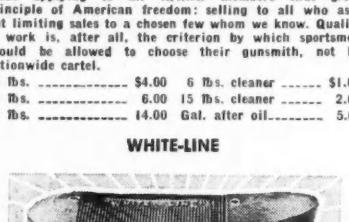

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(Continued from page 51)

if they shoot smallbore under the present setup.

I attended the Altoona matches over the Labor Day weekend. A group of us shooters were gathered in the lobby of the Penn Alto Hotel, having one of our usual bull sessions.

It was generally agreed that a Master shooter is actually handicapped for being a Master shooter. A Master pays the same entry and registration fees as the others in classes below him. Although he has the highest score of the match, his award is usually the lowest. A good example of the inequity was at the Regional shoot at Altoona. It was a match that really caused a lot of ill feeling toward classification. I have this well in mind because my name was involved. At that time I was classified as an Expert. I was standing near the bulletin board as one of the final bulletins was being posted. More than once I overheard shooters say, "Sammy Yasho got more money out the match than Wayne Moore." This didn't make me feel any too good. I realized full well that my score was far below Wayne's, yet I received more money than he did. I felt that I was getting it handed to me. After all, I did not go to the regional matches to clean up in the Expert Class, which I didn't do. I went there because I like to shoot and match my skill against the best. I didn't ask to be put into the Expert Class from the Master Class in which I had been for a few years.

"Do you know what I got for winning the National Women's Championship, that is actual cash?" asked "Petey" Adelaide McCord, the current National women's rifle champ. You should have seen the facial expressions when she said, "$2.40!" That's right two dollars and forty cents. That wouldn't buy one carton of match ammo. One of the gang said, "Wouldn't a sport headline like this do a lot to interest new shooters in the game, "Petey" McCord Wins National Women's Rifle Championship and $2.40 Prize Money." Incidentally, she stated that she is considering quitting the smallbore game. Out of a group of ten or twelve high-bracket shooters that were gathered when these discussions were made, about two or three decided to get into something else.

The last time that I talked to Wayne Moore, he also was thinking of quitting the competitive game. If facts like these are publicized, it will not help tournament shooting.

SAMUEL J. YASHO

RUTLEDGE

Portland, Oregon

Editor:

I quote from "Do You Know Your Gun?" by Archibald Rutledge: "I heard a slight noise ahead of me, and caught the glint of a horn. Although my gun was under my arm at the time and my hat pulled down, I managed to get my gun up and to make a shot at the vanishing buck. I never saw exactly what kind of deer I was shooting at."

Kids read your magazine and are led by what they read. They think that the people who write for you are the last word on the subject of guns and hunting.

BRUCE M. CAMPBELL

WHY RED?

Sanford, Maine

Editor:

In the September issue of THE RIFLEMAN Mr. A. K. Olson asks, "Why Red?" I'd like to shake Mr. Olson's hand. I agree with him except I think blue would be better than yellow.

PETE ROBERTS

San Pedro, Calif.

Editor:

My own choice of color for California is blue, such as a new overall or jumper. I picked this color because I could spot a hunter (still or moving) in blue long before I could see other hunters near him or closer to me, some wearing red, when all of them were in the open.

MAURICE MCSHEA

Lannon, Wis.

Editor:

. . . I most certainly do not believe that "yellow" is the answer to the problem. I have seen deer that were fairly light colored and I would hate to walk through brush showing an occasional flash of yellow to some of the idots who are loose in the woods with a rifle during the deer season.

Let's continue to wear red and declare an open season on these trigger happy damn fools. . . .

GLENN HARMON

COMING EVENTS

The four classes of registered tournaments are indicated as follows:

AA—National Matches.
A—Regional Tournaments.
B—State Championship or large district matches.
C—Local Tournaments.
Un—Indicates tournaments that are not registered.

Tournaments requiring Advance Entries are indicated by **Adv.** and tournaments that plan to limit the entries to a predetermined number are indicated by **Ltd.**

OCTOBER

4-5, Pennsylvania (B) State Pistol Championship. F. H. Wells, 3800 Hillcrest Rd., Harrisburg. **(Adv. & Ltd.)**

4-5, Oklahoma (B) Second Annual Magic Empire Small Bore Fall Tournament. Don P. Young, 216 East Archer, Tulsa.

4-5, Hawaii (C) Sixth Annual Double Ten Pistol Tournament. Andrew Wong, 1046 Wong Ho Lane, Honolulu, 34.

4-5, Michigan (C) Annual Fall Indoor Rifle Matches. Clarence A. Burch, 19440 Afton Road, Detroit. **(Adv.)**

4-5, New Jersey (C) The Swiss 500, Union City. Mr. Walter J. Tanner, 119 Hobart St., Ridgefield Park.

5, Indiana (C) Small Bore Rifle Tournament. Hubert K. Rhodes, 3015 Noble Street, Anderson. **(Adv. & Ltd.)**

5, New York (C) Forbes Fall Small Bore Tournament, Nassau. Bert J. Czwakiel, 517 New Scotland Ave., Albany. **(Adv. & Ltd.)**

5, Michigan (C) Annual Fall Pistol Tournament. Kenneth E. Gilman, 1330 Begale St., Flint 4. **(Adv.)**

5, Illinois (C) Winnebago County Rifle Tournament, Camp Grant. Dr. S. G. Oren, 704 Talcott Building, Rockford.

5, California (Un) Southland Pistol Matches. R. S. Pease, Secretary, Route 3, Box 84, San Diego.

5, Illinois (Un) .30 Caliber Matches, Fort Sheridan. Thomas Blakemore, 5004 West Huron St., Chicago 44.

5, California (Un) Pistol Match. Claire A. Bourelle, 2114 West 84th St., Los Angeles.

5, California (Un) Oakland Pistol Matches. J. H. Valerga, Jr., 3800 Cerrito Ave., Oakland 11.

5, Pennsylvania (C) Third Annual Fall Small Bore Rifle Championship, Lockaley Station. Mary Jane Oster, 2800 Township Line, Llanerch.

5, California (C) Small Bore League Match, Richmond. Chilton DeWitt, 3701 Lincoln Ave., Oakland.

5-12, Texas (C) Annual Fall Small Bore. Harry L. Kent, 2405 Dormarion Lane, Austin.

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Shown above, Model A tool Retail price
$47.50*

These superior tools are built to load any standard center-fire, metallic pistol or rifle cartridge with ease and accuracy. Both Universal Tool models, A and B, are identical in all parts except for differences in the turret heads. Model A, illustrated at left, holds three dies in its indexed rotating head, sufficient to reload any single caliber cartridge. Model B, illustrated at right, fills the need of the shooter who owns guns of several calibers and wishes to keep his dies set-up and handy for immediate use.

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22 Wilson Arrow
.218 Bee
R-2 Lovell
.219 Zipper
.219 Imp'd Zipper
22 Savage H.P.
.220 Swift
22-250 Varminter
22 Gebby Baby Var.
22 Gebby Jr. Var.
22 Gebby Sr. Var.
.240 Gebby Super Var.
.240 Gebby Super Bltd.
.25-20
.250-3000 Savage
25 Remington
.25-35
.256 Jap
.257 Roberts
6.5 mm.
.270 Winchester
7 mm.
.280 Ross
7 x 64 mm.
7 x 57 rim mm.
30-30 Winchester
30 M1Carb
30 Rem.
.300 Savage
.300 H.& H.Mag.
30-40 Krag
30-06
.303 British
32-20
32 Win. Spl.
32-40
8 mm.
8x57 rim mm.
9.3 x 62 mm.
.348 Win.
35 Rem.
.351 Win.
.375 Magnum
38-40
38-55
.401 Win.
.405
44-40
45-70
45-90
.256 Newton
30 Newton
35 Newton
.218 Bee CCC.
.219 Zipper CCC.
22 Swift CCC.
22 H.P. CCC.
22 Varminter CCC.
22-06 CCC.
22 Magnum CCC.
.250-3000 Sav. CCC.
.257 Roberts CCC.
25 Krag CCC.
25-06 CCC.
25 Magnum CCC.
.270 CCC.
.270 Magnum CCC.
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30-40 CCC.
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.300 Magnum CCC.
.348 CCC.
.375 Magnum CCC.
.375-06 CCC.

PISTOL DIES:

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44 S&W Spl.
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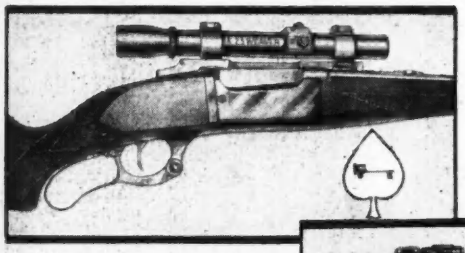

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Lead ladle, 6½" bowl	1.80 "
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Flints, assorted	12 for $1.00
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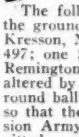
11, North Carolina (C) Small Bore Rifle. Addie C. Ellner, P.O. Box 36, Greensboro. **(Adv. & Ltd.)**
11-12, Virginia (C) Fall Pistol Tournament, Quantico. Mr. H. V. Winfree, Sr., P.O. Box 7, Dumfries. **(Adv. & Ltd.)**
11-12, Georgia (C) South Atlantic Small Bore Rifle Tournament. Charles P. Simon, Route 4, Box 84, Ogeechee Rd., Savannah. **(Adv.)**
11-12, Alabama (B) Ninth Annual State Rifle Championship. J. D. Clem, 315 So. 70th St., Birmingham.
11-12, Pennsylvania (Un) Annual Fall Muzzle Loading Shoot, Shartlesville. Dr. J. E. Hirtle, Jr., 27 So. Walnut, Bath.
11-12, New York (C) Second Fall Championship (Rifle), Bethpage, L. I. Val Cleaver, P.O. Box 356, Hicksville, L. I.
12, Wisconsin (C) Lannon Fall Small Bore Tournament, Lannon. Lawrie C. Radway, Globe Union Rifle and Pistol Club, Box 1888, Milwaukee. **(Adv. & Ltd.)**
12, Louisiana (C) First Annual Ark-La-Tex Pistol. J. M. Goslin, P.O. Box 1098, Shreveport.
12, Arizona (C) Sectional Pistol Tournament, Phoenix. Mack Weiss, Box 1024, Prescott.
12, Michigan (Un) Muzzle Loading, Kalamazoo. R. Ten Eyck, Galesburg.
18-19, California (C) Central California Small Bore Rifle. Henry Wright, 1025 Michigan, Fresno. **(Adv.)**
19, Georgia (C) North Georgia Rifle Championship. W. W. Wall, Jr., Box 608, Gainesville.
19, New York (Un) Pistol Tournament, Bethpage, L. I. Val Cleaver, P.O. Box 356, Hicksville, L. I.
19, California (C) San Francisco Police Monthly Pistol Tournament, Lake Merced. Emile J. Dutil, 324 16th Ave., San Francisco 18.
26, Georgia (C) North Georgia Pistol Championship. W. W. Wall, Jr., Box 608, Gainesville.
26, Tennessee (Un) State .30 Caliber Matches. A. W. Nine, 104 Underwood Place, Knoxville.
26, California (C) Sixth Annual Sacramento Valley Small Bore Rifle Championship. Melvin Koontz, 2208 9th Ave., Sacramento 14.
31-Nov. 1-2, Illinois (B) Mid-West Gallery Pistol Championships. George W. Zuckweiller, 4316 Keystone Ave., Chicago 4.

NOVEMBER

2, California (Un) Southland Pistol Matches. R. S. Pease, Sec., Route 3, Box 84, San Diego.
2, California (Un) Oakland Pistol Matches. J. H. Valerga, Jr., 3800 Cerrito Ave., Oakland 11.
2, California (C) Small Bore League Match, Richmond. Chilton DeWitt, 3701 Lincoln Ave., Oakland.
8-9, Florida (C) Florida West Coast Small Bore Championships. L. W. Abrams, 705 Prospect Ave., Clearwater. **(Adv.)**
9, Mass. (C) First Annual Tournament of the Southern Berkshire Rifle Club. John Williams, Greenridge Farm, R.F.D. #3, Great Barrington. **(Adv.)**
16, California (C) San Francisco Police Monthly Pistol, Lake Merced. Emile J. Dutil, 324 16th Ave., San Francisco 18.
30, California (C) 77th St. Division Gun Club Holiday Pistol. Claire Bourelle, 2114 W. 84th St., Los Angeles 44. **(Adv. & Ltd.)**



STOLEN GUNS

The following guns were stolen on May 20 from the grounds of the South Jersey Beagle Club, Inc., Kresson, New Jersey: One Colt Woodsman No. 112,497; one Smith & Wesson K22 No. 632,361; one Remington .44 Army Percussion, number not known, altered by changing the loading rammer so that only round balls could be used and by slotting the barrel so that the sight is driven in; one Colt .44 Percussion Army Model 1860, number not known, barrel pitted somewhat on outside right side. Harry F. Leschke, 537 W. Graisbury Avenue, Audubon, N. J.

One H&R Model 999 Sportsman pistol No. 82587. Roy H. Patitz, Bassett, Nebraska.

Lost or stolen: S&W .38 caliber revolver No. 321351 in brown shoulder holster. Robert Luke, 1 Second Ave., Ilion, N. Y.

.38 caliber Colt Police Positive No. 419715. Philip Pugliese, 12 Midland Ave., Port Chester, N. Y.

New .22 Smith & Wesson K-22 Masterpiece target revolver No. K-1692. Harry H. Mann, Box 1078, Palm Springs, Calif.

One Colt .38 Special revolver number 640866, heavy barrel officers' model, with wide hammer, Buchanan short action, Roper front sights. Raymond L. Campbell, 4221 Dwight St., San Diego 5, Calif.

Five-shot revolver chambered for .25 auto made by A. Francotte of Liege, Belgium, number 2563. Revolver chambered for .32 S&W, no maker's name but monogram AF on rear face of cylinder and number 29 stamped on gun in various places. Warren C. Strover, 5725 Grover Street, Chicago, Illinois.

.22 caliber Colt Woodsman, No. 180663; and .38 Colt automatic pistol, Model 1902, No. 13758. Lloyd C. Bloomer, Osborne, Kansas.

.30 caliber Springfield sporter, No. 1367600. Oliver G. Olafson, 1519 East Franklin Ave., Minneapolis, Minn.

Hi-Standard Military, Model HD, 4½ inch barrel, No. 166721. Bill Sitrman, Box 733, Alpine, Texas.

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TIGHTENING UP THE .45 AUTO

After reading in THE AMERICAN RIFLEMAN some articles on ways to improve the .45 pistol, I decided to write you of a simple change I made which seemed to improve the shooting of one quite a bit.

As the amount of "play" between the barrel and barrel bushing will, to some extent, govern the accuracy, especially with a cold pistol, I took brass shim stock and made a shim that holds nicely in the barrel bushing. Around 100 shots can be fired from the gun before the bushing has to be renewed.

To make the bushing all that is necessary is to get thin stock, then cut it to a length that will take up the slack but not bind. Then notch this piece around both edges, put it on the barrel, and insert it into the bushing. Roll down the edges and it is ready to use.—GEORGE Y. PRICE, Pueblo, Colorado.

BULLET LUBRICANT KINK

So far as I know the old reliable Ideal No. 1 lubricator and sizer has never been used in the following way. At least no one ever told me about it.

Regardless of the type of lubricator and sizer used, the gremlin of greasy bases always pops up. I could understand why this should be so with some sizers, but not with the Ideal, until I hit upon the following solution.

The bullet is seated on top of the die and it is forced into the die by the top punch and handle. Once the bullet is at its maximum depth, a strong pressure is maintained on the handle to keep the bullet base tightly plastered to the bottom (J) die. Now reach up with the left hand and turn the handle that forces grease into the grooves of the bullet until some resistance is felt in turning. At this point back off the grease pressure handle ½ to ¾ turn and raise the bullet from the die and examine it. With a little practice one can determine the right amount of pressure to exert on the grease pressure handle to fill the grooves and not force any grease under the bullet base. During the above operations a strong pressure must be maintained on the seating handle. This pressure cannot be released until the grease pressure handle is fully backed off or greasy bases will result.—MAJOR ELLIS LEA, Madison, Wis.

MAXIMUM TRAJECTORY HEIGHT

I do not know whether I am harboring a pet peeve, or whether others are inclined to share my feelings, but I believe that little practical service is tendered to the average hunter by informing him how high his bullet is going to be at mid-range. Surely it is time to think of a better way to express the capabilities of a firearm.

It's been quite a while since I had to worry about "theory of the trajectory," and it is quite possible that I have forgotten most of it, but I do remember that "height at mid-range" and "maximum height of trajectory" *are not the same*, and that the latter is not reached until a point well beyond mid-range. With this in mind, I believe that knowing how high a bullet is going to be at mid-range is of dubious value at best—ARTHUR SCHLOSS, Mount Vernon, Ga.

Answer: If it were not for the retardation of the bullet by the atmosphere, the maximum height of the trajectory would come at exactly one-half the range. However under actual conditions the maximum height of the trajectory comes at a point slightly beyond mid-range and is slightly higher than mid-range height. However at hunting ranges the difference is so small as not to be of any practical importance. For example with a .30-'06 cartridge firing a 150 grain bullet at 2700 f.s. muzzle velocity the maximum height of trajectory over a range of 100 yards comes at 50.9 yards. The difference in the height of the trajectory at mid-range from what it is at this point is too small to see.

With the same cartridge and load over a range of 200 yards, the maximum height of the trajectory comes at 103.8 yards. The height at this joint is 2.89 inches as against 2.86 inches at mid-range. Obviously this .03 inch difference in height of trajectory is too small to worry about.

Of course as the range gets greater the difference increases but over average hunting ranges the difference is of no practical importance.—J. S. H.

ENFIELD SUPER SPEED LOCK

Miller & Nittler, 3030 Geary Blvd., San Francisco, Calif., make an alteration on the Enfield to transform it to a speed lock action. Their form of conversion requires no welding on the bolt. Cocking on the opening travel of the bolt, the length of travel is lowered to about .20 inch or less than that for the Model 70 Winchester.

The one converted Enfield we tried gave good, uniform ignition. A heavy duty mainspring is included in the job, to insure good ignition with the very short striker travel. The alteration job includes removal of the double-stage military trigger pull.—A. H. B.

LOADING FOR THE 8x60 MM. CARTRIDGE

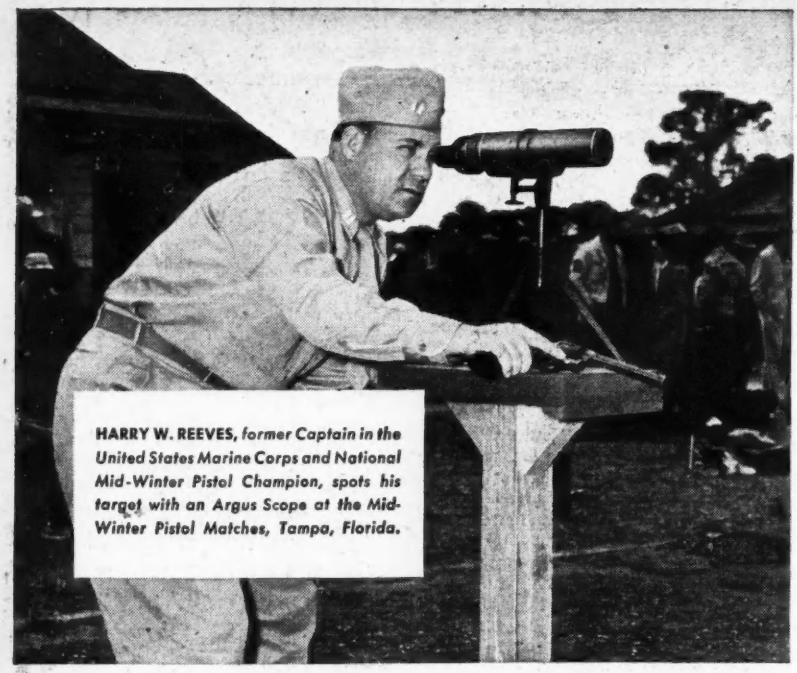
I have recently acquired a fine Mauser carbine which is chambered for the 8x60 Mauser cartridge. Studying the German ballistics and firing a few rounds of RWS cartridges has convinced me that it is a fine cartridge. I proceeded to have reloading tools made up for it.

The difficulty is in finding information for suitable loads with American bullets (125, 170, and 236 grains), and modern American powders. I have looked up Sharpe's book and in others, but cannot find any information.

My German cartridges are loaded with H-jacket 12.7 gram bullets (195 grains) and 3.0 grains of Rottweiler No. 5 powder. This seems a good hefty load. Can you suggest any loading data for this rifle which would realize the capabilities of the cartridge? I am a novice at reloading, and developing a load is a bit too much for me.—EUGENE M. MATT, Buffalo, N. Y.

Answer: To my knowledge there is no specific loading data for the 8x60 Mauser cartridge available which uses American powder. I can give you a suggestion that is very practical. Take one of your cases and fill it up with, for instance, Nos. 4064 or 4320, which would be the best powder to use. Fill it full, level to the mouth, and weigh the charge. Then take a .30-'06 case and do likewise. I think you will find the capacity so close that you can actually use .30-'06 loading data as a guide, and you will find plenty of that in Sharpe's book. If the capacity is a grain or two less, then you would use that much less powder for bullets of equivalent weight. Another way to go about it would be: take the maximum recommended load for the 8x57 and increase the charge gradually by ½-grains. After all, the case length of the 8x60 is only 3 mm. longer than the 8x57, and only 3 mm. shorter than the .30-'06.—A. H. B.

This Bird's-eye maple stock is an example of what can be done without special training in the use of tools, either metal or wood working, according to Leon Lowell who made it. With a liberated Mauser and a standard-price rough-inletted Thomas stock, Lowell went to work. In place of checkering, an electric needle was used for the ornamentation to give better contrast. Simoniz Wax was generously applied to the stock finish, then the stock was held over an electric plate until the wax melted and soaked in. After the second coat of wax the stock was set away for two days, then buffed



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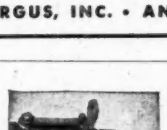

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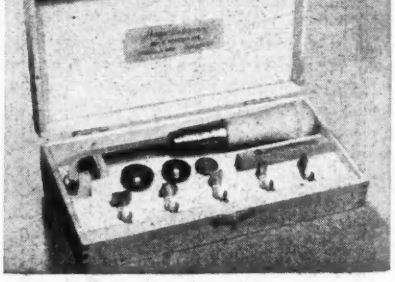
HANDLOADING KINK

I have been reading a lot on loading the 150 grain Government bullet. As I handload thousands of rounds every year I have done quite a little experimenting with this bullet. I place a gas check with a graphite wad pressed into it behind the bullet. The powder charge flattens the gas check and seals the gas.

You may be surprised how clean your barrel is after using this combination.—J. R. THOMPSON, Burt, Iowa.

INLETTING GOUGES

A unique set of woodworking gouges and scrapers has been designed by a gunsmith employed by Marshall Field & Co., in Chicago. The eight different size and shape cutters are interchangeably mounted by a single screw to the forward end of a handle, which in appearance is similar to the conventional checkering tool. The metal shank is made of ¼ inch square stock.



Marshall Field inletting gouges

In the set there is a square-end scraper ⅜ inch wide and another ½ inch. The semi-circular scrapers are 5/16 and ½ inch wide. There is also one V-shaped cutter. Completing the set, along with a carborundum sharpening stone, are three circular cone-shaped scrapers for use on grooved surfaces. The diameter of these are ⅝, ¾, and ⅞ inch.

We have found these wood-finishing tools quite handy for the final bedding of gunstocks, and other jobs around the workshop.

The sets are made by Hagen Engineering Co., 5211 S. Monitor Ave., Chicago, and Marshall Field & Co. will market them.—A. H. B.

LOADS FOR JAP RIFLES

Sometime ago I obtained a couple of Jap 7.7 rifles and decided to try to work up a suitable handload for them, harboring the thought that I might be able to build a cheap hunting rifle. I decided against rebarreling as being too expensive. Besides, I had the desire to see just what could be done with a Jap rifle the way it was.

Obtaining the cases was my biggest problem. Fortunately, I had a couple of Jap military rounds, and on measuring them and taking a sulphur cast of the chamber, I decided the .30-'06 case would most likely turn the trick. A full-length resizing die was very much in order and that presented the greatest problem. Having an accommodating machinist buddy, I gave him the two original cases with instructions to grind me a set of reamers which I could use to ream out a full-length resizing die. Upon receiving the

reamers I became very much enthused and immediately set about to make the die. That was finished in due time, with a lot of sweat and plenty of luck. The thing worked and I turned out some very nice cases that actually fit the gun. They had to be cut off, of course, but that did not present much of a hurdle.

With a supply of cases, I turned my attention to bullets. Having previously measured the groove diameter by driving a lead slug through the barrel, I decided to swage down 8-mm. bullets. The two rifles measured .314 and .3145 inch across the grooves. The machining of a bullet swage was not much of a problem and I was soon turning out bullets in quantity and of a proper diameter too. Now I had bullets and cases, all that remained was to put them together.

I decided that the first thing to do was to fire some proof loads with a string. I loaded a few cases to a maximum charge in the .30-'06 and, amazing as it may seem, the thing was still in one piece after running them through. I then loaded ten with 50 grains of HiVel No. 2 behind the .314-inch diameter 220-grain bullets and she took them in stride too. I did not have any indication of excessive pressure, extraction was easy, primers were not flattened to much extent, and the lugs and headspacing were checked between each shot. Then and there I decided the gun was safe enough for me.

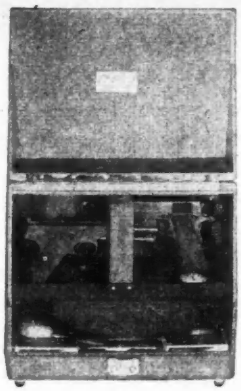
Now for the hunting type loads. I found that 42 grains of HiVel No. 2 along with my .314-inch diameter bullet of 220 grains teamed together pretty well. I will not say that I obtained ½-inch groups, but the gun certainly shot well enough for the average deer hunter.

In remodeling the rifle I simply cut the forestock off at sporter length, knocked the horns off the front sight, threw away the wood that was on top of the barrel and did likewise with the bolt cover. The bolt handle was bent down and that about completed the conversion. True, there are many things desired about this job, but it certainly didn't cost much.

At the present time I am playing with a 6.5 Jap. I do not have much information to offer, but will give a brief account of what I have done. The 6.5 Jap or .256 caliber required a .262-inch diameter bullet. I obtained this measurement the same as I did for the 7.7. A .270 caliber bullet swaged down works very nicely, although they swage very hard, taking plenty beef on a vise handle. Another possibility is to upset a .250 caliber bullet. That may prove to be easier. I have not as yet tried this. The cases were made by swaging the shoulder back on the .220 Swift case, then cutting them off and annealing them. Incidentally, this swaging job requires two dies, at least I had to make two. One die tended to buckle the case. As for proper loads, I have none to offer as yet.

A note of caution:

One must observe care and first determine the type of gun he has. The Japs were known to manufacture rifles using a cast receiver, which are absolutely worthless according to data I have read. One characteristic of the case receiver is that the tang is integral with the receiver, whereas the machined receivers have a separate stamped metal strap serving as the tang. There are undoubtedly other ways of determining the differences, but I don't know as I have never



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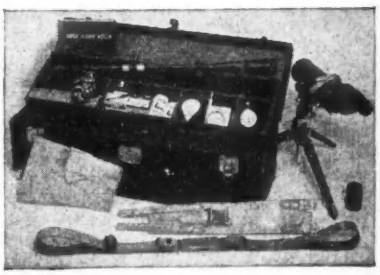

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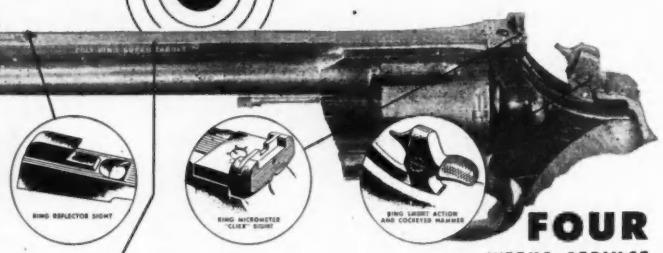

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seen one of these guns personally.—L. C. SPEAKER, Midland, Michigan.

Note: A further note of caution: persons converting Jap rifles as described above should remember that the .30-'06 cartridge is slightly smaller at the rear end than it should be to make a proper fit in the chamber of the Japanese 7.7 mm. rifle. If the brass is good, this will make no difference. But if the cartridge case happens to have a tendency to split longitudinally this undersized diameter would tend to aggravate this difficulty. This was described rather fully together with sketches on page 52 of THE AMERICAN RIFLEMAN for July, 1947.

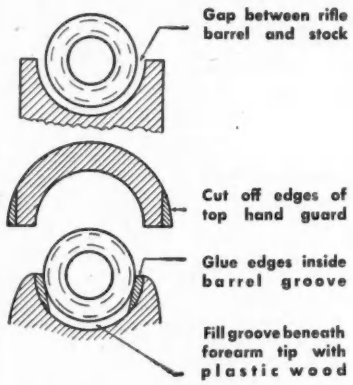
We think that the chance for trouble from this cause is slight but would suggest that persons shooting shortened .30-'06 cartridges in Jap rifles should always wear shooting glasses so that the eyes will be protected in case such a gas leak does develop.—A. H. B.

MODEL 1903 SPORTER

I undertook to convert the M-1903A1 rifle and the issue stock to a sporter, and I am well pleased with the results. The stock was beautifully grained, and a few hours work produced a sporter stock well worth the trouble. I put a Redfield 102 rear and Marble bead front sight on the gun.

I ran into some trouble because, as issued, the stock had a wide gap, 1/16 to 3/32 inch, between the barrel and the wood along its entire length. When the rear sight sleeve was removed, this gap was greatly increased for the length of the sleeve. My method of correcting this is probably not the best but it is so simple that others might be interested in it.

I took the top hand guard which was being discarded and, with a power saw, cut off a


Gap between rifle barrel and stock
Cut off edges of top hand guard
Glue edges inside barrel groove
Fill groove beneath forearm tip with plastic wood

piece along each side as shown in the sketch. These were cut just slightly thicker than the gap between the barrel and stock. The one rounded edge is made to order to fit against the inside of the barrel groove, and the pieces are flexible enough so that careful fitting is unnecessary. Simply use about three small clamps to hold them in place while the glue sets, then sandpaper them to get a good barrel fit and the proper contour on top.

I used separate pieces for the length of the barrel sleeve groove and for the rest of the forearm. This gave a good job on my rifle. The barrel fits snug and you have to look quite closely to see the pieces in place. I used plastic wood under the forearm tip. Where there is end grain the plastic wood does not show up at all. The rifle shoots as close as I can hold and is nice to look at.

If a power saw is not available to cut the pieces, a hacksaw blade does a good job without splintering the wood.—FRED RASMUSSEN, Coalville, Utah.

RECHAMBERED 6.5 MM. ARISAKA

P. O. Ackley, 160 Elm Street, Trinidad, Colorado, has made special reamers for rechambering the 6.5 mm. Arisaka to use the 7 x 57 mm. cartridge case. The neck of the 7 x 57 case must be reduced to fit the smaller diameter 6.5 mm. bullet. This results in a wildcat cartridge, but does provide handloaded ammunition for use in the 6.5 Arisaka. The performance of this cartridge has been encouraging.

George Spence, Steele, Missouri, has been partially responsible for the development of this cartridge and apparently he can supply handloads of it.—A. H. B.

SPEER BULLETS

Vernon D. Speer, 1522 G Street, Lewiston, Idaho, has done a lot to supply bullets for the reloader. He has set up a production schedule and, with the new equipment he has available for making bullets, expects to catch up soon on his back orders. He says this will mean making at least 3,500,000 bullets before considering new orders.

We have tried Speer's bullets in various calibers. In high-velocity rifles they do not give as fine accuracy as in some of the other regular makes. We have found them quite accurate in standard calibers and in the 2-R Lovell. The performance on game is exceptionally good from all reports that we have received.

There was no trouble at all for us to get less than one minute-of-angle groups with Speer's bullets in a 2-R Lovell rifle. In the .25 Magnums, which shoot at approximately 3500 to 3600 foot seconds velocity, the accuracy of his bullets with known loads was nearer to 1½ inches. These bullets are excellently made, using drawn copper for the bullet jackets.—A. H. B.

FIRING PIN FOR A MAUSER

I acquired a Mauser rifle, which had a broken firing pin tip. Rather than make an entirely new pin, I tried the following method and it worked.

First, I made a jig from a piece of cold rolled steel 5/16 inch diameter and 1⅜ inches long. This rod was centered in the drill press vise and a 13/64 inch hole drilled to a depth of ⅞ inch. Then a 3/16-inch drill was used for an additional depth of 3/16 inch. Finally, a 5/64-inch hole was drilled clear through the piece to finish the pilot.

The broken tip was filed flat, and back to within 1/16 inch of where the pin starts to increase in diameter. This will leave enough of the point to enter the small hole in the pilot. With the pilot in place on the firing pin I drilled a 5/64-inch hole in the end to a depth of ¾ inch. This had to be done carefully, as a broken drill would ruin the whole pin.

After the hole was finished the shank of the 5/16-inch drill was broken off and gently tapped into place. The tip was then rounded and shortened to give about .06-inch protrusion through the bolt face.—CLAUDE V. TRYON, Feura Bush, N. Y.

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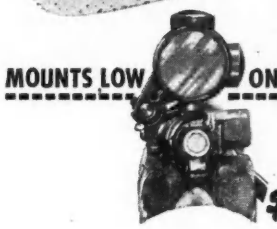

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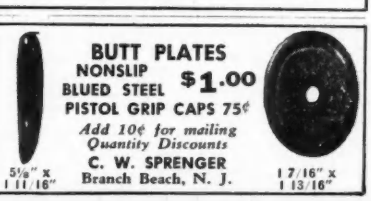

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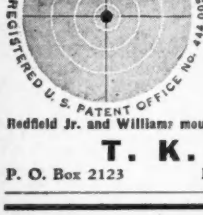

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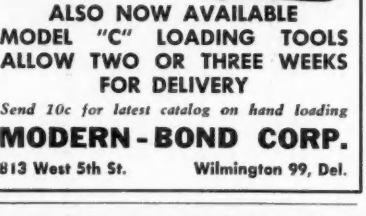

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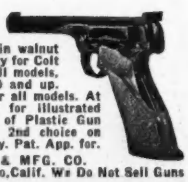

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RIM THICKNESS GAUGE

Some small-bore shooters believe in miking the rims of their target ammunition to eliminate those cartridges having excessively thick or thin rims. While most of the shooters who go to this extra trouble admit that their average groups are seldom much smaller with the uniform rim thickness, they do insist that an occasional low or wild shot caused by rim variation is eliminated.

After considerable experimenting along this line, I have reason to believe that a few extra points may be gained, especially if the rifle is somewhat temperamental, as we know some of them are, by checking the measurements of cartridge rims.

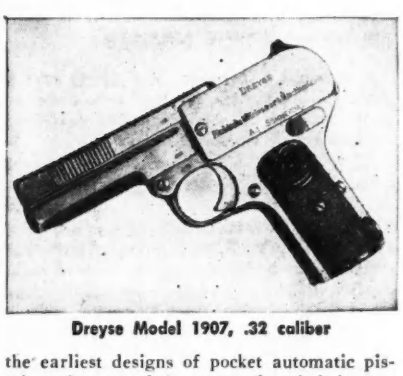
A new gauge has shown up recently made by G. W. Rupp, 1029 Hancock Ave., Vandergrift, Pa. It is made somewhat on the order of a micrometer, but with the "anvil" end long enough to be drilled and cut away on the top side to accept the Long Rifle cartridge. One side is relieved also so the cartridge can be rotated readily to check on any uneven, thick or thin side. This mike seems as satisfactory for the purpose as any other type we have used, including those made by C. V. Schmitt, Roy Gradle, and the Merit Gun Sight Company.—A.H.B.

DREYSE MODEL 1907 AUTOMATIC PISTOL

I am enclosing a picture of an automatic of German design. It appears to be a .32 caliber. A .32 caliber automatic fits in the clip and can be worked through the action. There is no marking on the gun to indicate the caliber. It is a well-made gun and in perfect mechanical condition. I would appreciate any information you could furnish on this gun.—RAYMOND SLADE, Dayton, Ohio.

Answer: You have the Dreyse Model 1907 Automatic pistol made at the Sommerda Works of the Rheinische Metallwaaren & Maschinenfabrik.

This pistol takes the ordinary .32 Colt Automatic Pistol cartridge. This is one of



Dreyse Model 1907, .32 caliber

the earliest designs of pocket automatic pistols and many of these guns found their way to this country after World War I.

This gun is comparatively easy to dismount as pushing a catch at the rear of the receiver just above the grip allows the barrel and slide assembly to hinge upward. Then, if the barrel bushing around the front of the barrel is pushed around the barrel far enough to permit the slide to be disengaged from the mounting lug on top of the bushing, the recoil can be eased out. Then raising the slide about 30 degrees will permit it to be withdrawn forward, out of its support.—J. S. H.

FITTING THE WILLIAMS MOUNT TO ENFIELD

The Williams Gun Shop, Davison, Michigan, makes a very attractive quick detachable scope mount for the Enfield utilizing the original rear sight leaf screw hole. Instructions with the mount indicate that the receiver bridge, when removing the sight guards, should be shaped to the contour of the Model 30-S and 720 Remington. As those dimensions were not available, we asked Mr. Williams just what the contour should be. The following is his reply:

"The rear top of the receiver on the Model 1917 should be ground down parallel with the front receiver ring and the radius should be ¾ inch. Then the mount we have designed will work favorably on the Remington Express or the 1917."

CLEANING RODS

Sam Tekulsky has started production on his excellent cleaning rods for rifle and handgun. The tool is modeled after Harry Pope's design and is unusual in that it lacks the customary handle.

We were surprised that the absence of a handle caused no difficulty and that it did permit clearance past high-combed stocks.

The one-piece, hard-steel rod is cased in a very neat brass tube with threaded caps at either end.

The button-tipped rods are available in 12- and 40-inch lengths.—J. S. R.

GUNSMITH TRADE DOPE

Bill Kirsh of the American Gun Works, 1284 Sunset Blvd., Los Angeles 26, California, writes that he will make and install any broken parts of the Colt Single Action revolvers.

☆ ☆ ☆

Jack Katen, of Katen's Gun Shop in Houston, Texas, is moving. He informs us that he is opening up a gun shop for the Tom Padgitt Company in Waco. His new address will be 3602 Hobby Street, Waco, Texas.

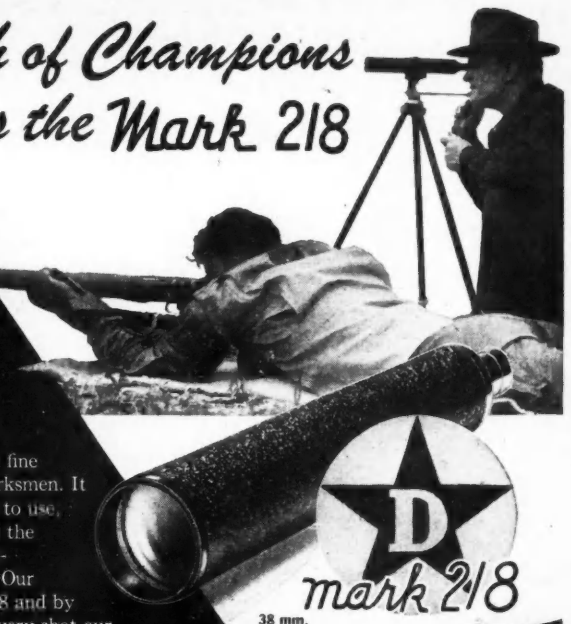
☆ ☆ ☆

Brenner & Von Stein, gunsmiths of 2060 67th Street, Brooklyn 4, N. Y., tell us they are now operating a fully modern shop. They state they will do all types of gunsmithing and will guarantee fair prices to NRA members.

☆ ☆ ☆

Remington Arms Company and the Peters Cartridge Division of the Remington Arms Company of Bridgeport, Connecticut, have just published two new pamphlets of ballistic information on Remington and Peters cartridges. The information includes bullet weight and type, muzzle velocity in feet per second, muzzle energy in foot-pounds, and, in addition, the remaining velocity and energy at 100, 200, and 300 yards with the midrange trajectories for each of these distances. The information given on pistol cartridges includes muzzle velocity, muzzle energy, length of the barrel used in the test, and the penetration obtained in ⅞-inch pine

Coach of Champions uses the Mark 218



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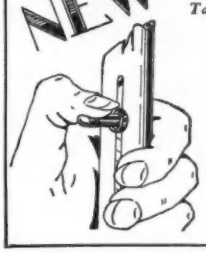

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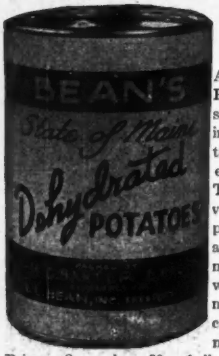

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☆ ☆ ☆

Terhaar's Gun Works formerly located on Cross Avenue, Jacksonville, Florida, has now moved to 7 West 21st Street in the same city. The firm specializes in .45 automatic accuracy jobs and military conversions.

☆ ☆ ☆

Benjamin S. Albertson, Jr., Lewes, Delaware is again in a position to supply that very good "Palma Compound" for cleaning rifles. On a previous test we found this thin cleaner and preservative to be one of the best of its type. In addition to being a powder solvent, it is a good rust inhibitor.

During the recent war Albertson used his equipment and material in the preparation of urgently needed medical supplies. Though some new equipment has now been obtained, the output of "Palma Compound" is still limited. Albertson claims that his compound has the backing of the Marine Corps as a cleaner, lubricant, and preservative compound.

☆ ☆ ☆

E. L. Rice, 316 Masonic Temple, Elyria, Ohio, well known for his very practical, but inexpensive, Krag aperture rear sight, has a simple one for the Enfield. It can be installed, without drilling and tapping the receiver, in the groove made for the original rear sight spring leaf.

Other inexpensive, but practical, accessories are a spring adjustable barrel band, pistol grip caps, barrel-receiver fillet for the Krag rifle, and Springfield sporter type aluminum buttplates.

☆ ☆ ☆

A. D. Lefor, Dickinson, North Dakota, can furnish completely inletted, ivory inlaid, hand-carved, oil-finished stocks for Enfield and Springfield rifles. His filigreed pattern work on a pair of ivory pistol grips we have seen is very attractive.

☆ ☆ ☆

The Modern Gun Shop, formerly located in Hynes, Calif., has moved to its new enlarged plant at 311 N. Paramount Blvd., Clearwater, Calif. New equipment has been installed to make those good M. G. S. copper-jacketed bullets in .25, .270, .30, 8 mm. and .35 calibers. All other gun work has been discontinued.

☆ ☆ ☆

The American Optical Co. of Southbridge, Mass., has incorporated specially heat-hardened lenses in their Calobar Shooting Glasses. At Camp Perry and other shooting events, Mr. Louis J. Serleto and Mr. Frank Nicklason of American Optical Co. have put on a demonstration which has caused much comment among observers.

In this demonstration a steel ball five-eighths inch in diameter is dropped forty inches onto an ordinary lens which, needless to say, shatters into small fragments. Then a heat-hardened Calobar lens of similar appearance is given the same treatment and the ball merely bounces off, leaving the glass unharmed. A lens with such strength is obviously a comforting thing to have between your eyes and the breech of a gun.

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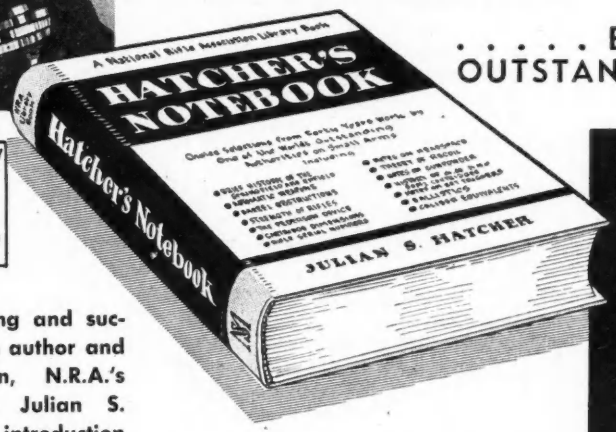

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BECAUSE of his long and successful career as an author and firearms technician, N.R.A.'s Technical Director, Julian S. Hatcher, needs no introduction to the shooters of America. Nor does his new book require anything to recommend it to the shooters other than its title—"Hatcher's Notebook"!

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In his RIFLEMAN review of Hatcher's Notebook last month, Frank Kahrs said, "If I were to place a value on the book, I would say that the first chapter of nine pages 'Brief History of the Springfield' would be worth the purchase price." That chapter and chapter 2 (History of the Enfield) contain timely information about these rifles of special interest to shooters who have purchased or anticipate purchasing one from the Director of Civilian Marksmanship. (See the announcement elsewhere in this issue regarding the resumption of government rifle sales to N.R.A. Members.)

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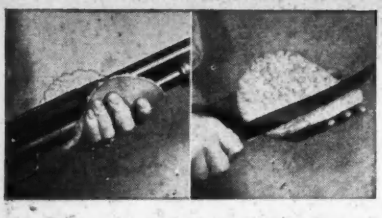

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1718A Walnut St. Allentown, Pa.

Wallace E. Mason of the DuMond Gun Co., East Glastonbury, Connecticut, sent us a sample of the handload data sheet which he sells. Printed on 8½x11-inch notebook size paper, there is space on it for all loading and shooting data.

☆ ☆ ☆

John R. Speer, 7428 Richland Manor Dr., Pittsburgh 8, Pa., makes a double forward set trigger for bolt-action rifles. The instructions for fitting this trigger seem to be rather complete, although we have not tried to install one of them. The retail price is low.

☆ ☆ ☆

Miller Hamlin Company, 312 East 68 Terrace, Kansas City, Missouri, is now advertising wall type gun holders made of steel wire and covered with a maroon-colored felt. These holders are attached to the wall by a single wood screw shank, and are entirely practical for displaying a rifle horizontally in the den or over the mantle piece. One pair, selling for $1.48, supports one rifle.

☆ ☆ ☆

Vernor Gipson, 6600 W. 111th Street, Worth, Illinois, can rebarrel and rechamber rifle barrels for many different calibers, including some of the popular wildcat variety. Having been associated with the Niedner Rifle Corporation, Gipson is quite familiar with the most popular hunting cartridges.

BOOK REVIEWS

THE HISTORY OF THE BIRMINGHAM GUN-BARREL PROOF HOUSE:

With notes on the Birmingham Gun trade

By Cleve Harris

As its title would indicate, this 150 page cloth-bound book is a collection of historical notes on the small arms industry in Birmingham, England, and particularly the Gun Barrel Proof House in that city.

The book describes the origin of gunmaking in England, which started at London in the reign of Elizabeth and was followed by the Royal Charter of the London Company of Gunmakers. By the time of the Civil War in 1643 Birmingham was also known as a gun making center. But the London gunmakers made repeated and bitter attempts to put their Birmingham rivals out of business. Later, by an appeal to Parliament, the Birmingham gunmakers protested successfully against the manufacture of arms in their town by the Government in a proposed Royal Arms Factory.

The book contains many interesting side lights on English gunmakers in general, and on Birmingham gunmakers in particular. The volume ends with a rather gloomy discussion on the decline of the small arms trade in Great Britain, which evidently has long since passed its zenith.

To those who are interested in the historical aspects of the subject of guns, the book makes very interesting reading.—J.S.H.

(Published by the Guardians of the Birmingham Proof House. Available from Abercrombie & Fitch, Madison Ave. at 45th St., New York, N. Y., for $4.50)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

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2. Closing Date: All advertisements must be received by not later than the 1st of the month preceding date of issue. (Example: the 1st of October for the November issue. Ads *received* after the 1st of October *and not later that the 1st of November* will be inserted in the December issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: WE reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

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In addition the N. R. A. has adopted a policy of not accepting advertisements covering small semi-automatic pocket pistols which have no practical value as target, police or military weapons.

FOR SALE

WE BUY, SELL, TRADE SHOTGUNS, rifles, revolvers, ammunition, outboard motors. Scaramuzzo, 601 South Halsted, Chicago 7. tf.

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A SERIES OF BULLETINS OFFERING BARgains in modern rifles, shotguns, pistols, revolvers, being issued through 1947—25¢. House of Guns, Alpine Place, Kearny, N. J. tf.

SIGHT-IN YOUR OWN HUNTING RIFLE—Special ballistics tables for check-firing, or sighting-in big bore rifles. Long range zero sight settings can be check-fired on Sca-Pat targets at 50 and 100 yards. Special table shows trajectory on 50 and 100 yard targets for zero range up to 300 yards. Table also gives zero range that will keep the bullet within 4" high, and 4" low. Special tables and 5 scale targets postpaid for only $1.00. Sca-Pat Targets, P.O. Box 6547, Dept A-1, Philadelphia 38, Penna. Dealers' inquiries invited. 11-47

$1.00 DELIVERS HANDSOME SOLID BRASS rifle rod outfit, postpaid. Includes patch tip, one finest quality phosphor bronze brush, one soft bristle. State caliber desired, .410 also. Same except two piece jointed rod, canvas kit, $1.25. Woodford Mfg. Co., Lyndhurst, Ohio. tf

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SPORTS INVENTIONS: FISHING, HUNTing or other sports inventions, patented or unpatented, can now be safely pre-tested for commercial value. Complete information free. Institute of American Inventors, Dept 131, 1926 Eye Street, N.W., Washington 6, D. C. tf

RELOADING LUBRICANTS: IPCO COLLOidal graphite ribbon wads $1.00 box, Ipco bullet lubricant $1.00 box. Special discount to dealers. Industrial Products Co. W. W. Perkins, Prop Box 14, Wakefield, Mass. tf.

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MUZZLE GUN SUPPLIES: NIPPLES FOR shotguns, rifles, revolvers and muskets, 25¢ each or 5 for $1.00—all in tool steel. Rifle and shotgun usually take the .250 base with 28 threads; revolvers .225 base—32 threads; muskets .317 base, 24 threads. Also carry .260-28 and .285-28—same price. Flints for pistols or rifles, $1.25 per dozen. Percussion caps #10 for pistol and #11 for rifle and shotguns, $3.40 per 1000; musket caps $4.40 per 1000—may come by express. Fresh Dupont black powder—6¼ pound can $4.00, 25 pound can $12.50, FOB. Freight only. Hickory ramrods, .38, .40 and .42 $1.00 each; large sizes $1.25 each. Nipple wrenches for rifle, pistol and musket (specify which) 75¢ each. Moulds, round balls, .285 to .50—$6.00 each; above .50—$6.50 each—See Lyman list for sizes; top quality and very accurate. Drum, nipple and clean-out screw combination—send old drum for checking measurements 75¢. Powder measure with graduations for black powder, zero to 100 grains, plastic, $3.25. Lyman 17A front sights $3.00; early Sharps front with base .460" wide and German-silver blade 75¢—nice stock. Re-lfield M70 peep rear for Mauser conversions $8.50. Buhmiller .22 barrels, not turned outside or threaded $17.50. Curly Maple stocks 5 feet by 2¼", seasoned one year, $9.00. Walnut planks 7 feet by 8" by 2¼" $15.00 FOB—cured about 13 months. A few good squirrel and match rifles—tell us your wants. Farris & Son, Portsmouth, Ohio. tf.

HARD-TO-FIND PARTS AND ACCESSORIES for caplock arms, 45-70 Springfields, etc. New list #23 mailed on receipt large addressed envelope. Don't miss our exclusive Lyman double mould casting .36/.44 Conical Colt balls. James Servan, Santa Ana, California. tf.

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OVER 50 DIFFERENT SIZES OF AMMUNItion Fresh stock. Factory loaded. Send stamp for price list. Central Sports Supply, Delphos, Ohio. 11-47.

COLT DRAGOONS, COLT 1855 REVOLVING rifles, Flintlock Kentucky and squirrel rifles. Price list 10¢ stamps. E. C. Ward, 604 North Verdugo Road, Glendale, California. tf.

FREE GUN LIST FOR STAMPED SELF ADdressed envelope, no cards answered. Alliance Gun Exchange, Alliance, Ohio. 11-47.

HELMETS, BRAND NEW, SOFT BROWN leather, wool lined, type used by hunters, aviators, motor cyclists and other sports, all sizes. Value $10.00, special $1.95 each. Rifle slings leather, U.S. Army, 1¼", used, good condition, $1.00 each. Grimes rifle or shotgun slings, top grain, russet cowhide, adjustable to any shotgun or rifle, furnished in 7/8" $1.50, 1¼" widths, $1.95 each, brand new. Rifle sling swivels, quick detachable, 1½" only, $1.25 per pair. Used Colt automatic pistol magazines, $1.75 each, good condition. Taylor precision fishermans barometer, pocket size, $7.50 each. Rifle and shotgun section metal cleaning rods precision quality, all calibers and gauges, $1.50 each, brushes 25¢ extra. Recoil boot, prewar rubber, U.S. Army slip-on style, for shotgun or rifle, $1.00 each. Duck and crow calls $1.50 each, Hawk calls $2.00 each, all treated against tone change. Gent's 1" hand carved all leather western belt, tan, all sizes, $1.50 each. Genuine G.I. heavy canvas leggings with brass eyelets, large, medium and small sizes, $1.50 per pair. Holster for Luger automatic pistol with 8" barrel, saddle leather, brand new, $5.00 each. Tan leather belt holsters for revolver or automatic pistol, any size, with flap, $3.00, without flap, $2.50. Shoulder holsters, all leather, $4.95 each. Give barrel length and name of gun for all holsters. Send coin 10¢ for list of sportsmen's supplies available for immediate shipment. Sportmen's Supplies, 250 West Bayberry Lane, Upper Darby, Penna.

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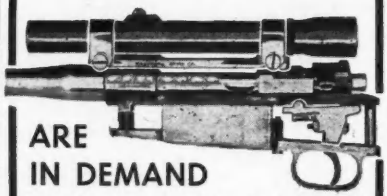

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AMERICAN, GERMAN, JAPANESE AMMUnition. Stamp for details. George Bjornstad, 1626 Fargo Avenue, Chicago 26, Illinois. 10-47.

SHELLS, SUPER X, 12 GA., 4, 5, 6, 7½ shot. $8.00 per 100. Minimum order 250 shells. Lester B. Powell, Life Member, 1823 L Street N.W., Washington, D. C. 10-47.

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Get ready for the deer hunting season by sighting in your hunting rifle on our new actual size running deer target. Lithographed on brown kraft target paper, size 28" x 42", these actual size deer targets are immediately available in packages of 4 targets (2 facing left—2 facing right), postpaid, $1.00. Send remittance with order to:

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Win. 64 219 Zipper 26" rd., new	85.00
Hi-Standard HD 22 cal auto 4½"-6¾"	51.50
Redfield 70 Sights, most numbers	8.50
Redfield 102 Sights, most numbers	5.75
Redfield Jr. Mts. ¾, ⅞, 1", most numbers	10.75
75-12-75	14.75
Lyman Alaskan Scopes, 2½X, all reticules	60.00
Lyman Jr. Targetspot, 6X, 8X, 10X	62.50
Lyman 48 52 Win. 4524 sight	15.00
Lyman 48 52 Win. 48J	14.00
Lyman ramp sights, Krag, Spr., Enf. 24-26"	6.25
Lyman 48 Sights, Krag, Spr., Enf. 54-70, M.98, Rem. 30	12.50
Lyman 17A Sights, 8 disc	3.00
Lyman Tru-Line Jr. loading tools, most calibers	22.00
B.&M. straightline loading tools, most calibers	19.50
Easton Big Giant Loading Tools	32.50
Ray-Ban Shooting Glasses, Kalichrome lenses	16.50
Ray-Ban Shooting Glasses	15.00
Ray-Ban Skeet Glasses	12.50
Ray-Ban Sun-Glasses	10.75
Ray-Ban Hook-Overs	4.75
Mitchell Shooting Glasses, gold	11.50
Mitchell Shooting Glasses, white metal	7.50
Unertl 1½" Target Scopes, 8X to 20X, coated	89.00
Unertl 1¼" Target Scopes, 8X to 14X, coated	77.00
Unertl 1" Target Scopes, 6X, 10X	57.00
Unertl Varminter 6X 8X coated	75.00
Unertl Small Game Scopes, 4X to 6X, coated	38.00
Unertl Tube Sight and Mounts	24.00
Texan Rifle Scope, 2½X, coated	50.00
ARGUS SUPER SPOT, 20X	74.50
Weaver K2.5, $37.50; K4, coated	45.00
Fecker "Woodchucker," 4½X, 5½X, 7X	62.00
Fecker Targetscope, 1⅝", 12.5X to 20X	98.50
Fecker 1¼" Targetscopes, 8X	70.00
Buehler Mounts ¾ ⅞ 1"	15.00
Fecker 1½" Targetscopes, 8X to 20X	89.00
Litschert Attachment —$17.50 &	20.00
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Sheepskin rifle cases, scope size	10.00
Sheepskin zipper pistol holster	3.25
Sheepskin flap holsters, all sizes	2.00
King-Pike Mounts (all sizes)	17.50
Echo Mounts, Q.D., all sizes	17.50
Turner Q.D. Mts., all sizes	15.00
Burton Mounts, all sizes	20.00
Springfield Trigger Guards, stripped, old style milled	3.00
Springfield Bolts Sniper, complete, new	11.50
Springfield Extractors, new	1.00
.25, 22-.270 25" Barrels, tapered	20.00
Enfield Extractors, new, ea.	1.50
Spr. AA3 Barrels, 4 gr., New	11.00
Lots of 5	10.00
Spr. barrels new 4 gr both sight bases	12.00
Lots of 5	10.00
Enfield Receivers, stripped	6.00
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Mauser 98 Bolts, stripped	5.00
Mauser Issue Barrels, 24" v.g.	5.00
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Mauser 98 actions, complete, good to v.g.	$27.50-35.00
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10-X Imperial shooters coats	13.00
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32 R.F. Long Ammo., per 100	2.20
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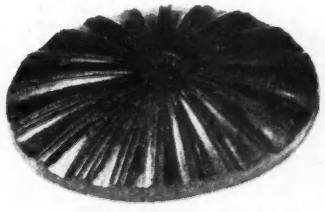

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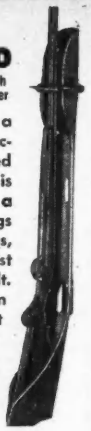

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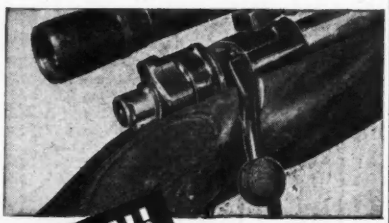

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Also bolts expertly checkered, $10.

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WINCHESTER MODEL 94 30-30 or 32 SPECial caliber, brand new $56.50. Remington model 141 .35 Remington caliber, brand new, $95.60. Winchester model #12 all gauges, brand new $78.50. Remington model #11 auto. shotguns all gauges, brand new, $94.00. Write us about the rifle or shotgun you are looking for, we may have it in stock. Goodwear Sporting Goods Co., 177 Flatbush Avenue, Brooklyn, N. Y. 10-47.

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WEATHERBY 257 IMPROVED MAGNUM Mauser, using standard shell. Reloads to 500 FS added velocity, Weatherby stocked, rechambered. Johnson barrel, K2.5, Litschert 6X attachment, shells, new, sighted in, $254.00. K22 S&W, holster, excellent, $50.00. Roy Bakkum, Waukon, Iowa.

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2½ power, approx. 40 ft. field of view at 100 yards. Internal elevation and windage adjustment, eye relief 3 to 5 inches, wt. 7¾ oz., coated lens $29.95

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45 foot field of view at 300 yards. Eye relief 2 to 4 inches, length 14½ inches, tube dia. 22 MM. (⅞"), dia. of objective lens 32 MM., wt. 16½ oz., coated lens $65.00
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with Tapered post and dot . . $55.00
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Installation charge quoted on request

CUTTS COMPENSATORS . . . $18.50
(with choice of any two tubes)
Additional tubes, each . . . $ 3.00
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Pfeifer barrel blanks are made from a special analysis, electro furnace high flash, high abrasion resistant tool steel, heat treated to a tensile strength of 130,000 PSI. Stress relieved before drilling, Rockwell C hardness 25-29, machinability rating 70. Should give little or no trouble with warpage or distortion under normal machining procedure and will in no way harm or wear chambering equipment to any greater degree than previously used barrel steels. Conclusive tests have shown you can expect 50 to 80% longer barrel life than that delivered by ordnance steels. Blank dimensions 28" long, 1¼" diameter.

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Discount to dealers and gunsmiths

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Cast of Meehanite. Ideal for hard bullet metals such as Type metal or Kirksite A. Grease reservoir operates under 300 lbs. pressure, enabling user to size many bullets with one pressure setting (approx. 35 bullets of .38 cal.). All dies are hardened, inside surfaces micro-finished $17.50

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CRAMER CAST IRON MELTING POT
3 pc. SET $6.95
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Available in following sizes: 108, 111, 115, 116 and 120 . . . per thousand $ 6.30

4-GUN PISTOL CASE
Sturdy leatherette covered plywood. Lock and full-length piano hinge. Velvet-lined tray and barrel rest. 2 colors: medium or dark brown. Space for ammunition and 13½" spotting scope $30.95

O'Dell's Scope Mount for pistol cases, $4.50

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Barrels for 45 Gov't Auto	5.50
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328	Only	T-Slot Cutter	.100"	thick	.545"	Taper Shank 2" long	Each $1.50
182	"	T-Shot Cutter	.095"	thick	.261"	Taper Shank 1¾" long	" 1.25
198	"	T-Shot Cutter	.201"	thick	.812"	Taper Shank 2½" long	" 1.25
613	"	T-Slot Cutter	.071"	thick	.385"	Taper Shank 1⅝" long	" .90
20	"	T-Slot Cutter	.402"	thick	1.094"	Straight Shank ⅝" diameter	" 1.75
182	"	Side Milling Cutter	.254"	thick	1.375"	diameter — 7/16" threaded Arbor Hole	" .90
19	"	Side Milling Cutter	.513"	thick	2.375"	diameter — ⅜" Arbor Hole	" 1.50
422	"	End Mill (Radius Ground)	.500"	long	.386"	diameter — Taper Shank 2¼" long	" .75
1173	"	End Mill (Radius Ground)	.375"	long	.300"	diameter — Taper Shank 1⅝" long	" .60
		End Mill (Radius Ground)	.375"	long	.251"	diameter — Taper Shank 1⅝" long	" .60
110	"	End Mill (5° Taper)	.500"	long	.521"	diameter — Taper Shank 1⅝" long	" .50
366	"	End Mill (5° Taper)	.500"	long	.555"	diameter — Taper Shank 1⅝" long	" .50
128	"	End Mill	.750"	long	.500"	diameter — Taper Shank 1½" long	" .90
8	"	Plain Milling Cutters	2 1/16"	wide	2½"	diameter — 1¼" Arbor Hole	" 2.75
9	"	" " "	⅜"	wide	3"	diameter — 1" " "	" 1.50
12	"	" " "	½"	thick	3"	diameter — 1" " "	" 1.85
14	"	" " "	¼"	thick	1¾"	diameter — ⅝" " "	" .95
18	"	" " "	.182"	thick	1⅝"	diameter — ⅝" " "	" .85
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9	"	" " "	7/16"	thick	2¼"	diameter — 1" " "	" 1.50
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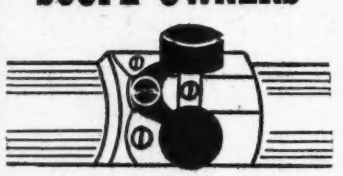

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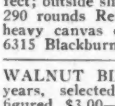

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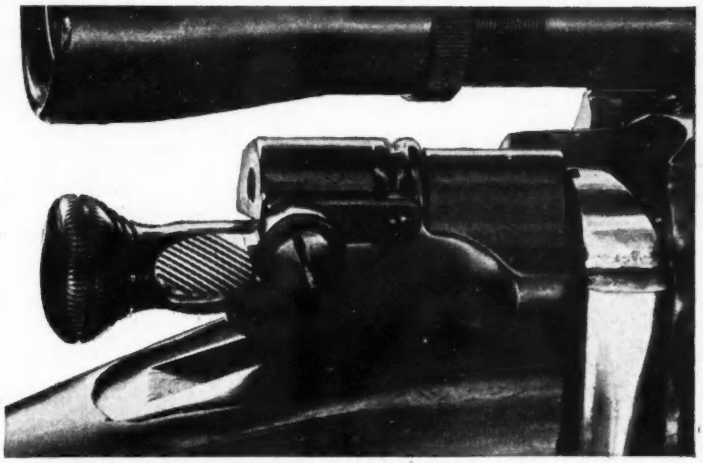

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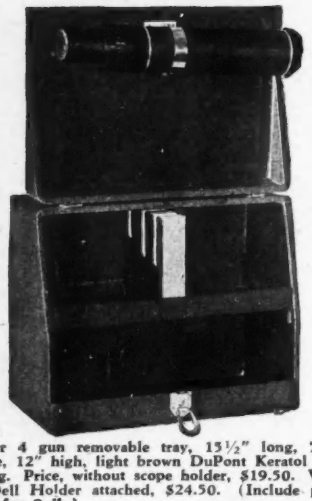

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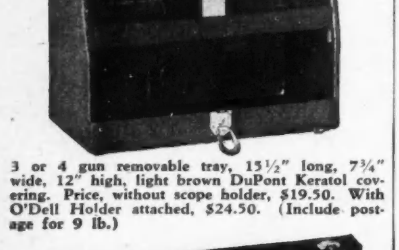

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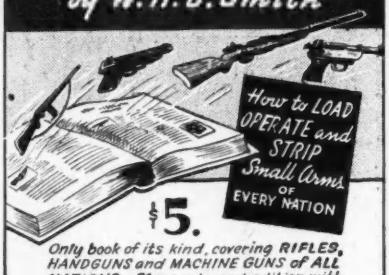

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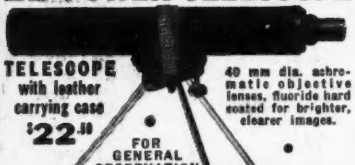

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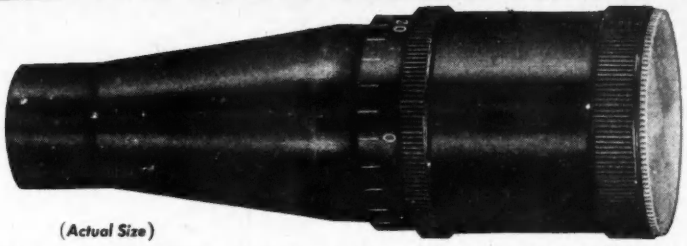

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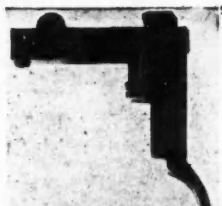

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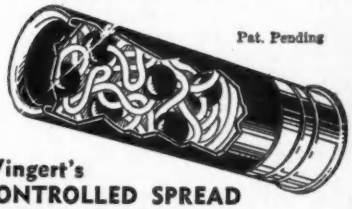

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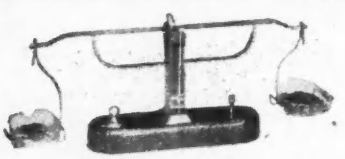

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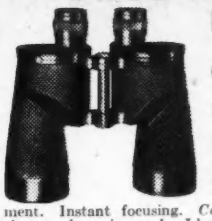

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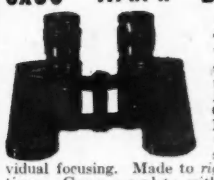

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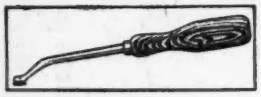

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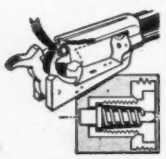

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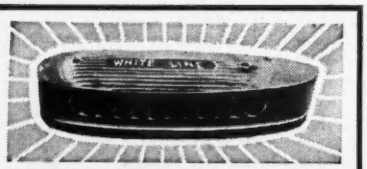

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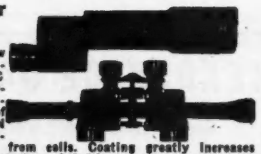

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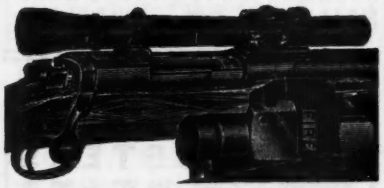

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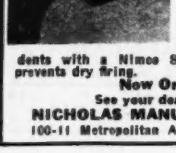

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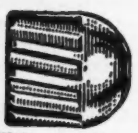

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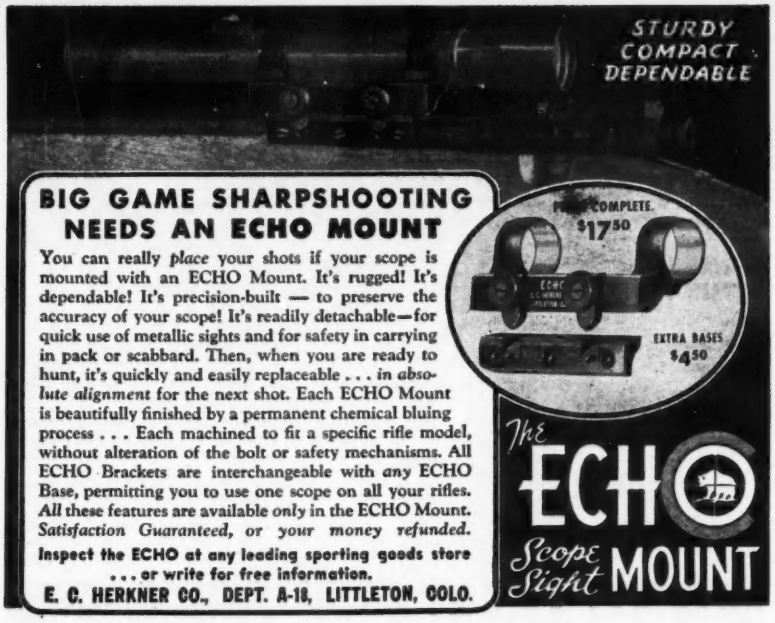

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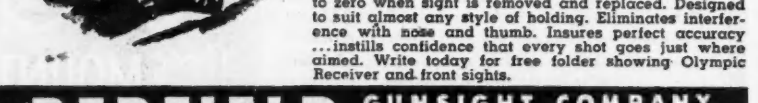

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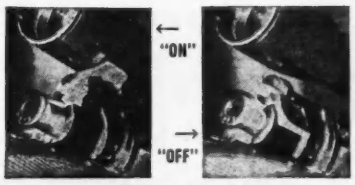

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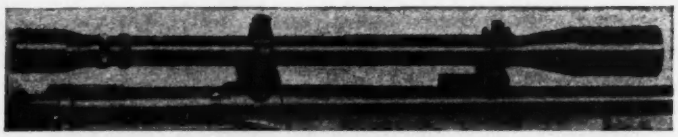

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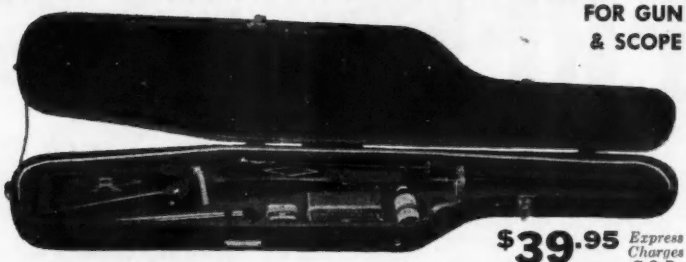

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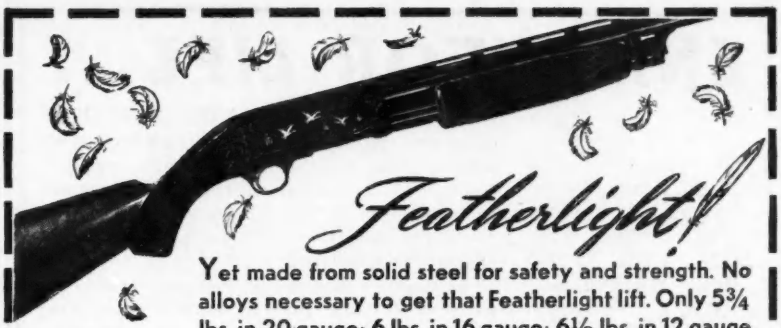

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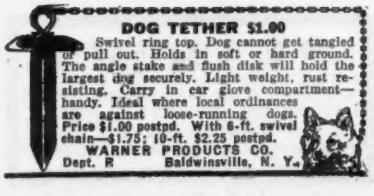

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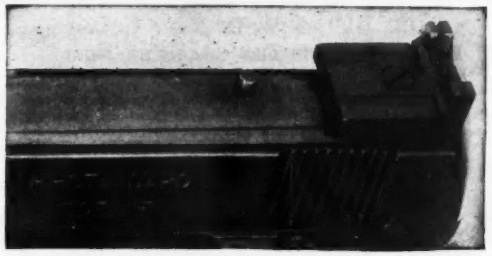

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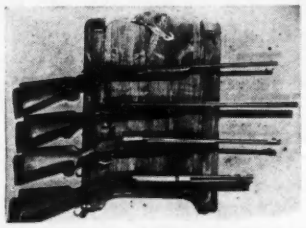

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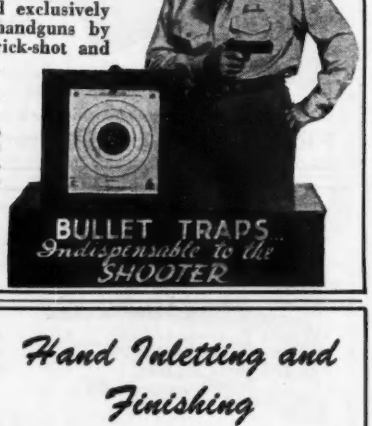

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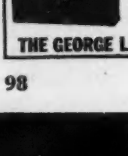

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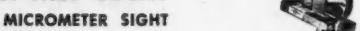

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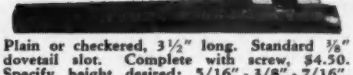
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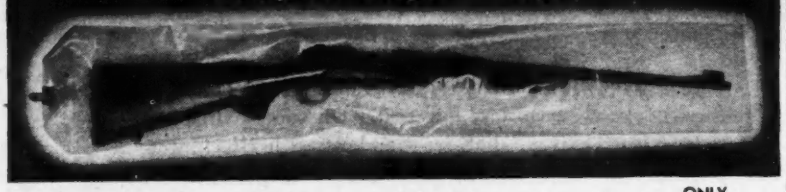

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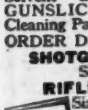

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2-ZEISS 8X ZIELACHT SCOPES, PERFECT, one with mounts to fit M70 Winchester $175.00, $165.00. 15X 2" Unertl scope, perfect $100.00. 8X Oigee Luxor scope, with mounts to fit Mauser, very good $100.00. Hensoldt 4X Zielyad scope, very good $50.00. Hensoldt Dialyt 10x50 binoculars very good $100.00. John Hayduk, Mount Union, Penna.

BUSCHING OPTICAL CO. BINOCULARS, telescopes, repaired, collimated, sealed. Rt. #7, Box 154, Olympia, Washington. 11-47

16MM. CINE KODAK, WIDE ANGLE. 1" f/1.9, 2½" f/2.7, all coated, new last fall $275.00. Herman Treptow, Milltown, N. J.

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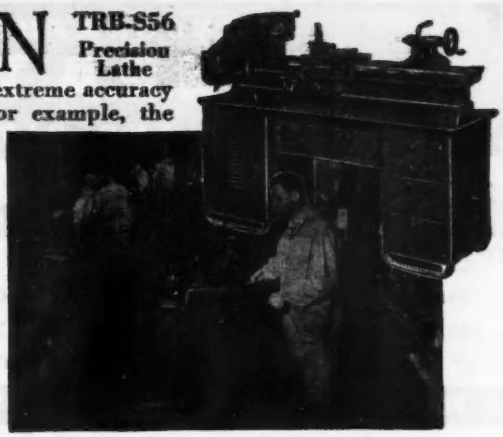

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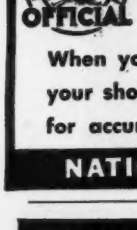

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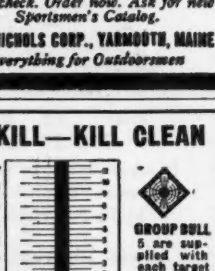

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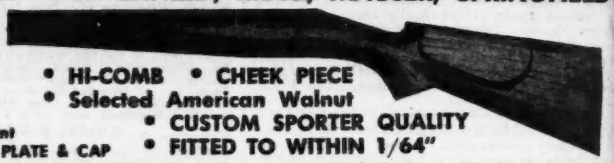

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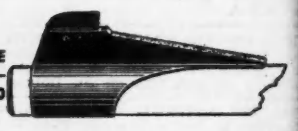

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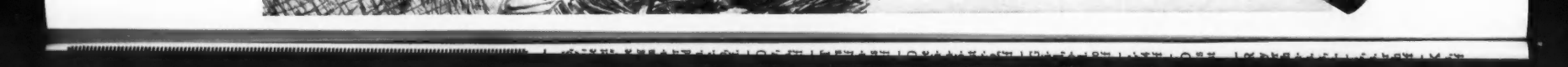

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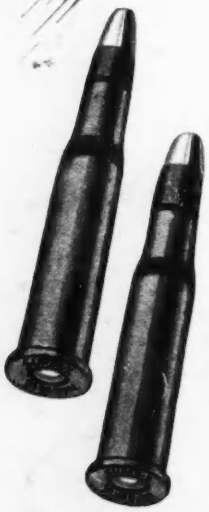

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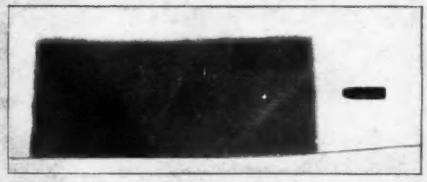
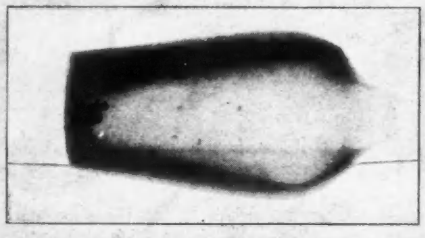
Here, For The First Time You Can SEE The Reason Why

So that expansion would be even in *all* directions—and be scientifically recorded by the camera—the long block of heavy flesh-like gelatin rested on a wide rubber band. Naturally, the four stages of penetration required photographing the flight of four separate, but identical Western SILVERTIP bullets.

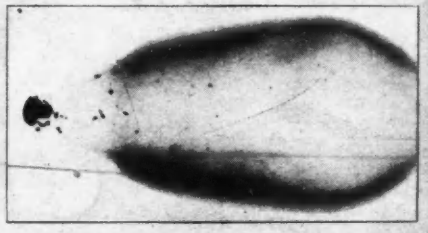


X-Ray photograph Number 1 shows a Super-X 30-30, 170-grain SILVERTIP bullet moving at 1,680 feet per second (its normal velocity at 200 yards). Bullet is about to enter the block of heavy flesh-like gelatin which rests on a wide rubber band.

Number 2 photograph shows a SILVERTIP 30-30 170-grain bullet after penetrating 4 inches of gelatin. NOTE: Expansion of bullet has begun. Cavity caused by displacement of gelatin in path of bullet's travel has started to form.



Number 3 photograph shows that after 6 inches of penetration, the SILVERTIP 30-30, 170-grain bullet is still intact and about to emerge from the gelatin block. NOTE: increased size of cavity. Small black particles behind bullet are tiny fragments of lead washed from nose of bullet.



Photograph 4 shows that the SILVERTIP 30-30 170-grain bullet has passed completely through gelatin block creating tremendous shock as evidenced by large cavity left behind. You can expect the same energy, deep penetration and maximum stopping power on your game.

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